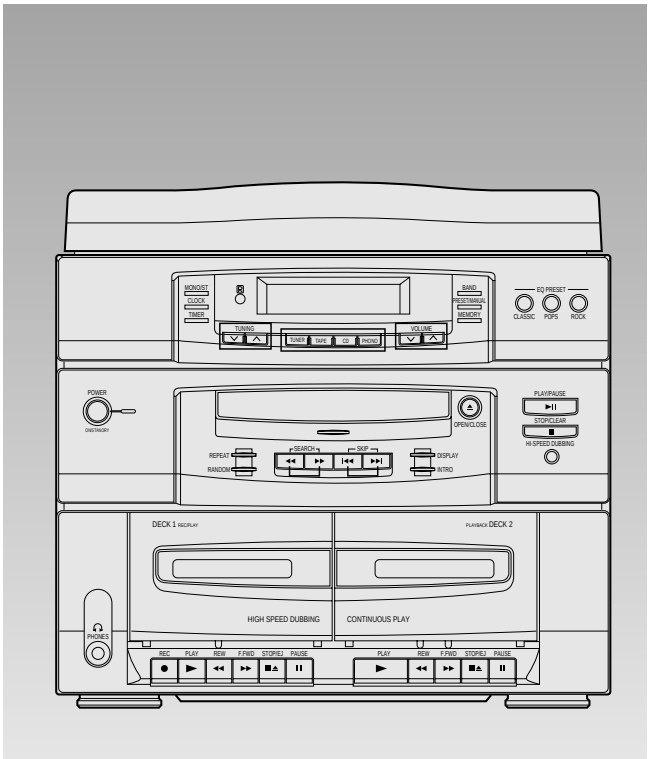
SAMSUNG

MUSIC CENTER

SCM-6700

SERVICE Manual

MUSIC CENTER



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Code No. AH68-20126A

1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

4. Design Alteration Warning:
   Never alter or add to the mechanical or electrical design of the unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

5. Leakage Current Hot Check (Figure 1-1):
   Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

   With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, etc.) and all exposed metal parts. Examples: Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat.

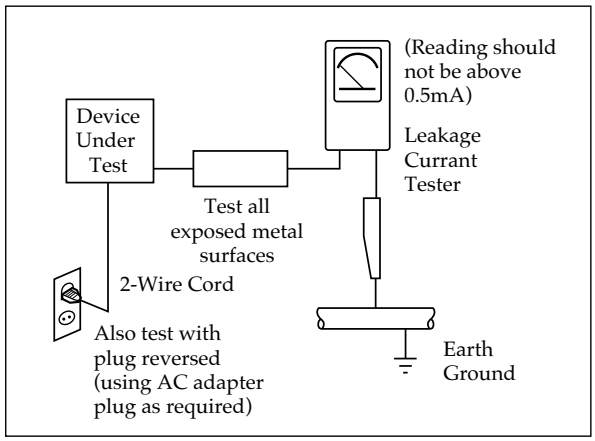

(Reading should not be above 0.5mA)
Device Under Test
Leakage Currant Tester
Test all exposed metal surfaces
2-Wire Cord
Also test with plug reversed (using AC adapter plug as required)
Earth Ground

Fig. 1-1 AC Leakage Test

6. Insulation Resistance Cold Check:
   (1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. (2) Set the power switch to ON. (3) Measure the resistance between the shorted AC plug and any exposed metallic parts. Example: Screwheads, antenna, control shafts or handle brackets.

   If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist. See Figure 1-2

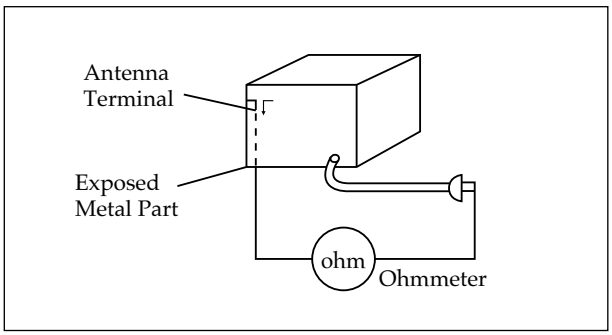


Fig. 1-2 Insulation Resistance Test

1-1 Safety Precautions (Continued)

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards

8. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.

9. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

10 Components that are critical for safety are indicated in the circuit diagram by shading, ⚠ or ⚠ . Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

1. Servicing precautions are printed on the cabinet. Follow them.

2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.

3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.

4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.

5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).

6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.

7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.

4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.

5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.

6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static" (these can accumulate sufficient electrical charge to damage ESDs).

7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.

8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

9. Minimize body motions when handing unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4 Special Precautions and Warning Labels for Laser Products

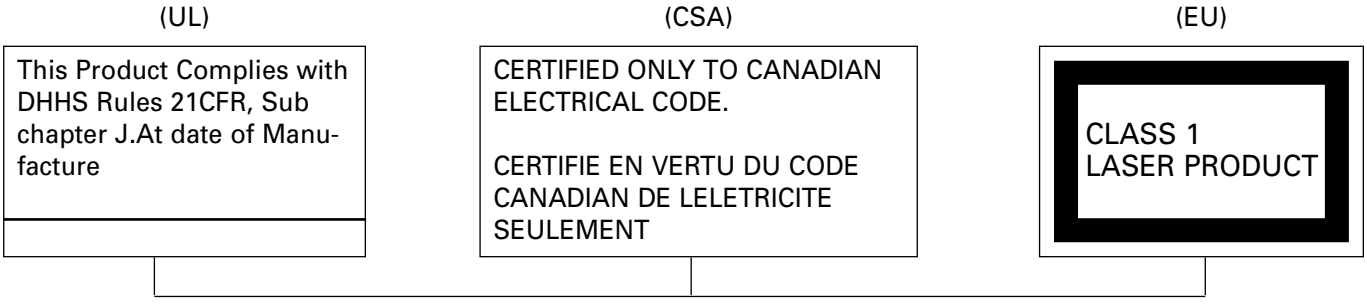

(UL)
This Product Complies with DHHS Rules 21CFR, Sub chapter J.At date of Manu-facture
(CSA)
CERTIFIED ONLY TO CANADIAN ELECTRICAL CODE.
CERTIFIE EN VERTU DU CODE CANADIAN DE LELETRICITE SEULEMENT
(EU)
CLASS 1
LASER PRODUCT

Fig. 1-3 Warning Labels (Location: Enclosure Block)

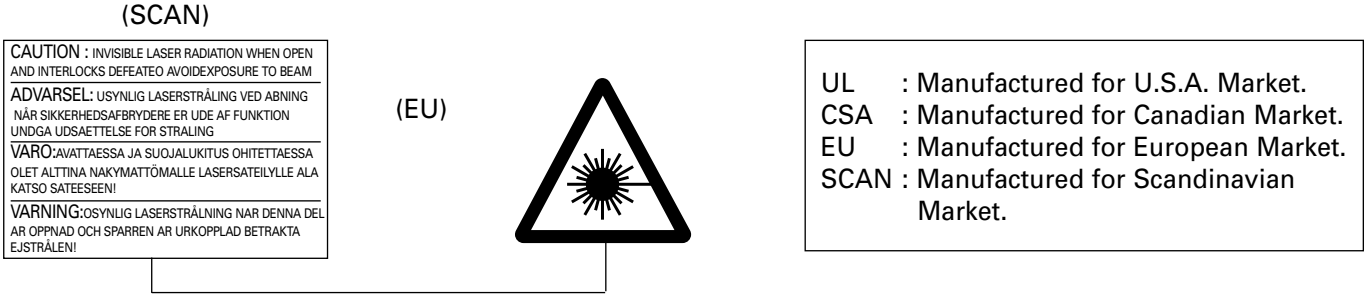

(SCAN)
CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATEO AVOIDEXPOSURE TO BEAM
ADVARSEL: USYNLIG LASERSTRÅLING VED ABNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGA UDSAETTELSE FOR STRALING
VARO:AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTINA NAKYMATTÖMALLE LASERSATEILYLLE ALA KATSO SATEESEEN!
VARNING:OSYNLIG LASERSTRÅLNING NAR DENNA DEL AR OPPNAD OCH SPARREN AR URKOPPLAD BETRAKTA EJSTRÅLEN!
(EU)
UL : Manufactured for U.S.A. Market.
CSA : Manufactured for Canadian Market.
EU : Manufactured for European Market.
SCAN : Manufactured for Scandinavian Market.

Fig. 1-4 Warning Labels (Location: Disc Clamper, Inner Side of Unit Door or Nearby Unit Chassis)

1-4 Special Precautions and Warning Labels for Laser Products (Continued)

1-4-1 Warnings

1. When servicing, do not approach the LASER exit with the eye too closely. In case it is necessary to confirm LASER beam emission, be sure to observe from a distance of more than 30 cm from the surface of the objective lens on the optical pick-up block.

2. Do not attempt to handle the objective lens when the DISC is not on the tray.

1-4-2 Laser Diode Specifications

Material: GaAs+ GaAlAs
Wavelength: 760-800 nm
Emission Duration: Continuous

Laser Output: 0.2 mw (measured at a 1.6 mm distance from the objective lens surface on the optical pick-up block.)

1-4-3 Handling the Optical Pick-up

1. Static electricity from clothing or the body may cause electrostatic breakdown of the laser diode in the Optical Pickup. Follow this procedure:

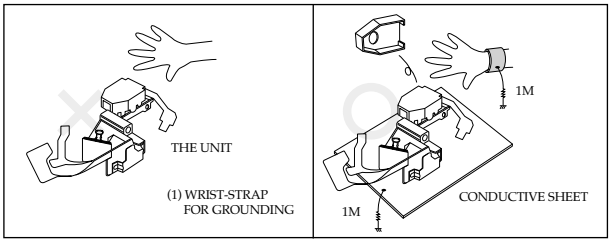
2. Place a conductive sheet on the work bench (i.e., the black sheet used for wrapping repair parts.) Note: The surface of the work bench should be covered by a copper ground plane, which is grounded.

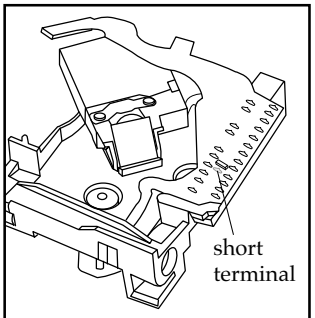
3. The repair technician must wear a wrist strap which is grounded to the copper sheet.

4. To remove the Optical Pickup block: Place the set on the conductive sheet, and momentarily touch the conductive sheet with both hands. (While working, do not allow any electrostatic sources--such as clothes--to touch the unit.)

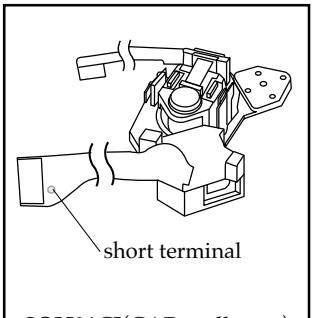
5. Ground the "Short Terminal" (located on the PCB, inside the Pickup Assembly) before replacing the Pickup. This terminal should be shorted whenever the Pickup Assembly is lifted or moved.

6. After replacing the Pickup, reopen the Short Terminal. See diagrams below:

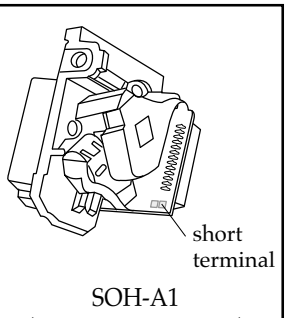




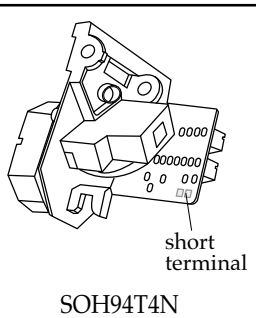
SOH91VI(LDP)



SOH91CI(CAR,walkman)



SOH-A1
(CMS-V10,CMS-V30)



SOH94T4N
(CMS-V10,CMS-V30)

2. Specifications

General		Power source	AC 115/230V 50/60Hz (Option)
		Power consumption	30W
		Dimensions (mm)	350(W)x328(H)x316(D)
Amp		Power output	5W/CH
		Total harmonic distortion	0.5%
		Frequency range	50Hz ~ 17kHz
		Signal to noise ratio	60dB
		Channel separation	45dB
Tuner	FM	Frequency range	87.5 ~ 108MHz
		Usable sensitivity	6μV
		Signal to noise ratio	55dB
		IF rejection ratio	60dB
		Total harmonic distoration	0.5%
		Separation (Stereo)	25dB
	MW	Frequency range	522 ~ 1611KHz
		Usable sensitivity	600μV
		Signal to noise ratio	40dB
		IF rejection ratio	30dB
		Total harmonic distoration	1%
	LW	Frequency range	146 ~ 290KHz
		Usable sensivity	1200μV
		Signal to noise ratio	35dB
Cassette		Frequecny range	125Hz ~ 12.5KHz
		WOW FLUTTER	0.15%
		Erasing effect	50dB
		Signal to noise ratio	40dB
		Total harmonic distortion	2.5%
Compact Disc		Frequency response	20Hz ~ 20KHz(¡ 1dB)
		Signal to noise ratio	85dB(1kHz 0dB)
		Channel separation	75dB(1kHz 0dB)
		Total harmonic distortion	0.1%(1kHz 0dB)

* Specifications are subject to change without notice.

3. Disassembly and Reassembly

3-1 Turn-Table, Cabinet-Front, Cabinet-Bottom

1. Remove Door-CD (Direction A).
2. Release 6 screws ①.
3. Remove Turn-Table (Direction B).
4. Release 2 screws ②.
5. Release 2 screws ③.
6. Remove Front-Cabinet.

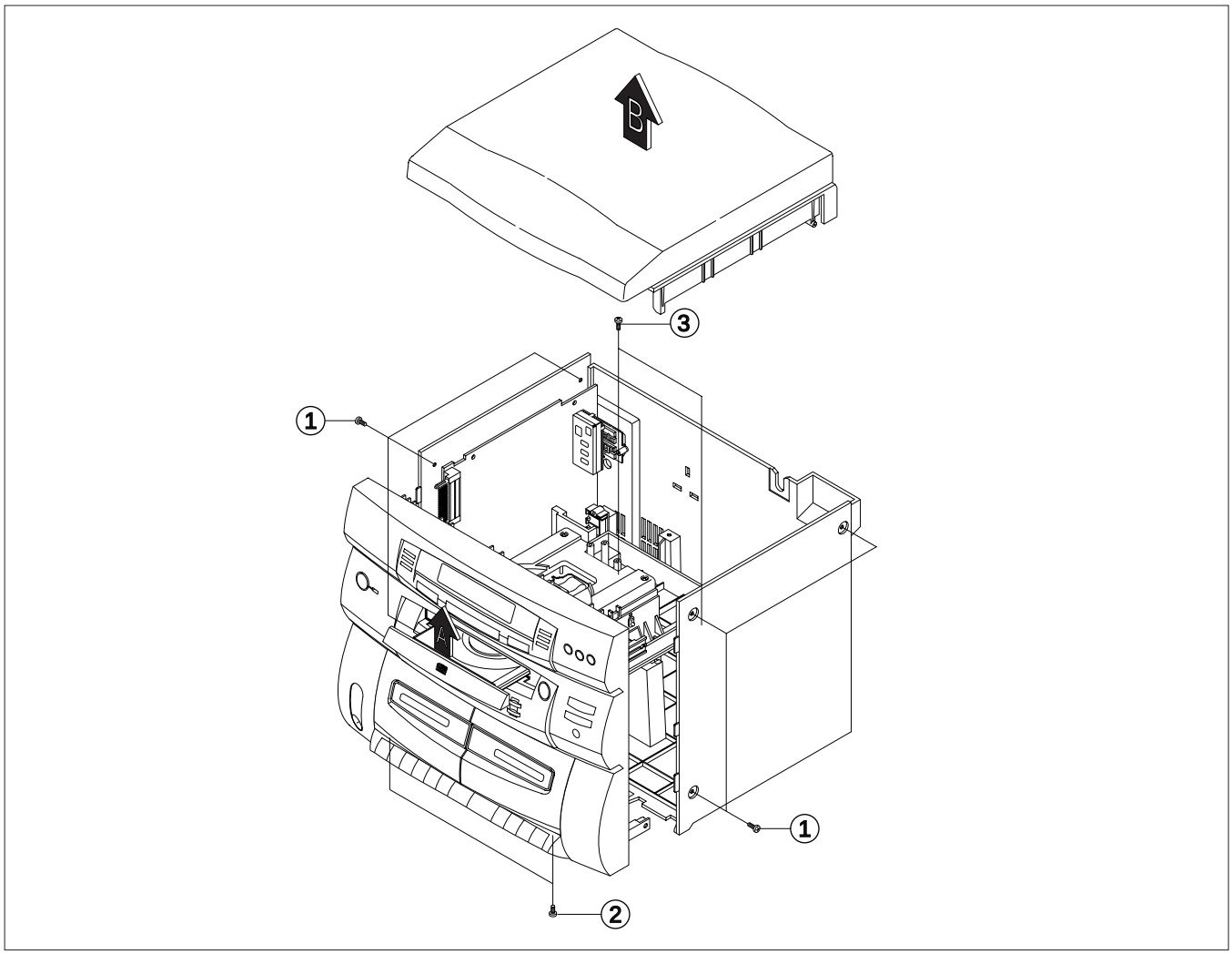


Figure 3-1

3-2 Deck-CD, Front-PCB, Cassette-Deck, Door-Cassette

1. Release 2 screws ①.
2. Remove Deck-CD ASS'Y.
3. Release 4 screws ②.
4. Remove Deck-CD.
5. Release 17 screws ③.
6. Remove Front-PCB, SUB-PCB.
7. Release 7 screws ④.
8. Remove Cassette-Deck.

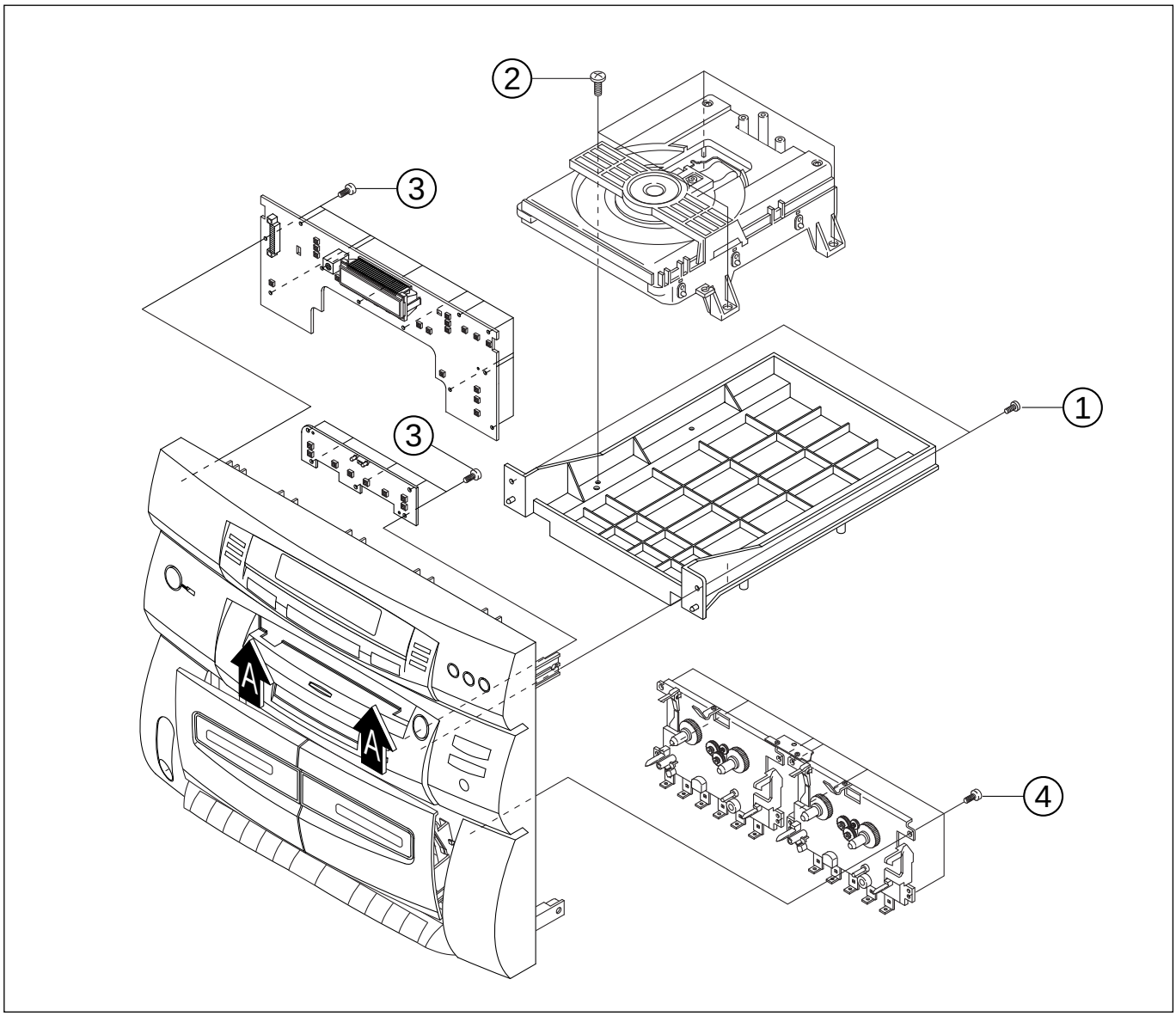


Figure 3-2

3-3 Cabinet-Bottom and Main-PCB

1. Release 3 screws ①.
2. Remove Main-PCB.

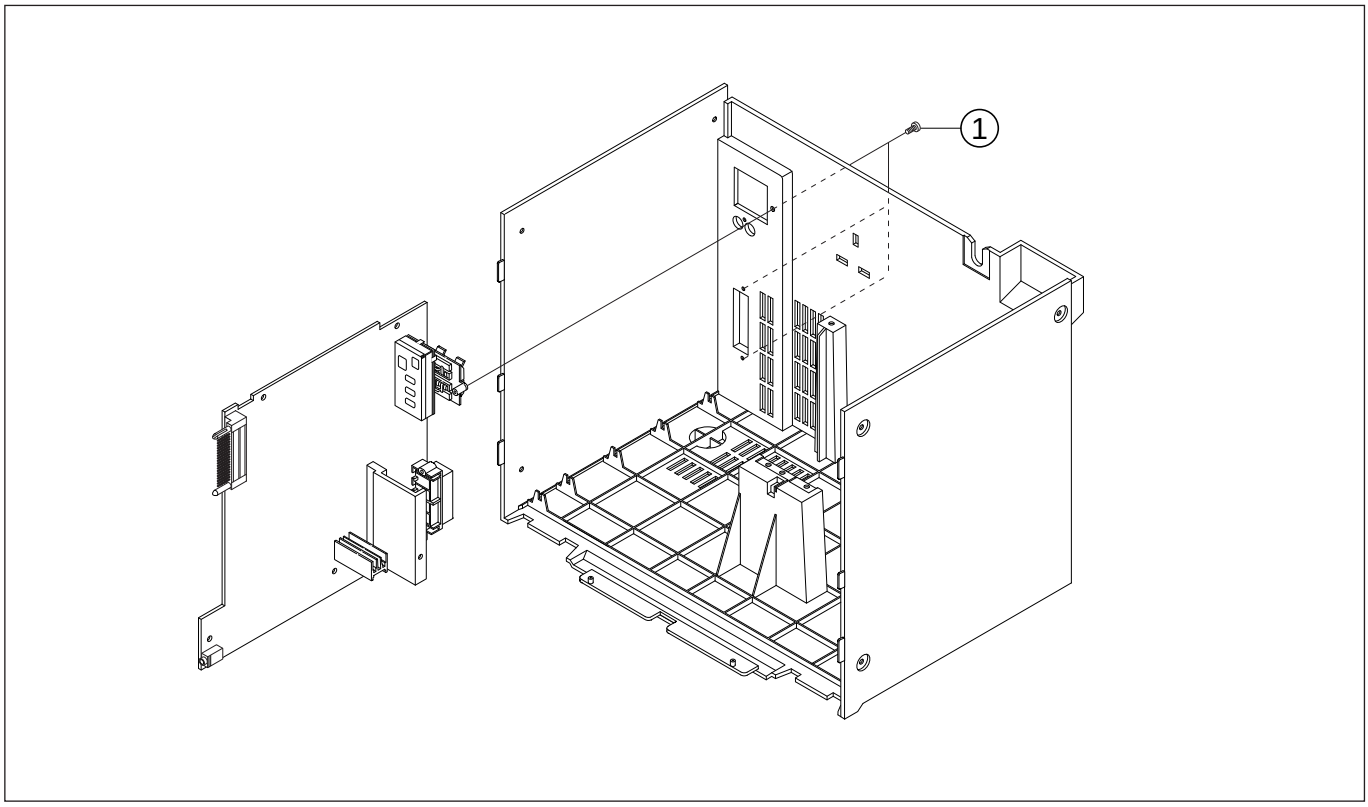


Figure 3-3

3-4 CD Pack

1. Undo 2 screws (A), and remove the Chuck-Bracket ②, the Ferrite-Magnet ⑮, Chuck Union-Table ④ and Chuck-Holder ⑦.
2. Undo 2 screws (B), pull the Tray-M1 ⑪ forward to remove.
3. Undo 1 screw (C), and remove the Cam-Spring ⑱ and the Cam ③.
4. Undo 1 screw (D), and remove the Gear-Pulley ⑨, the Belt-Pulley ②, the Gear-A ⑤ and the Gear-B ⑥.
5. Undo 2 screws (E), and remove the Motor-Pulley ⑩ and the Dc-Motor ⑳ .
6. Undo 2 screws (F), and remove the Leaf-Switch ⑲ and the Detector-Switch ㉑.
   Disconnect the Lead- Connector ass'y ⑭ with soldering iron.
7. Remove the Ass'y PCB ⑬ with soldering iron and remove the PCB-Holder ㉓ .
8. Undo 4 screws from the CD-Shaft ⑰, and remove the CD-Rubber ⑯ and the CD-Deck ㉒

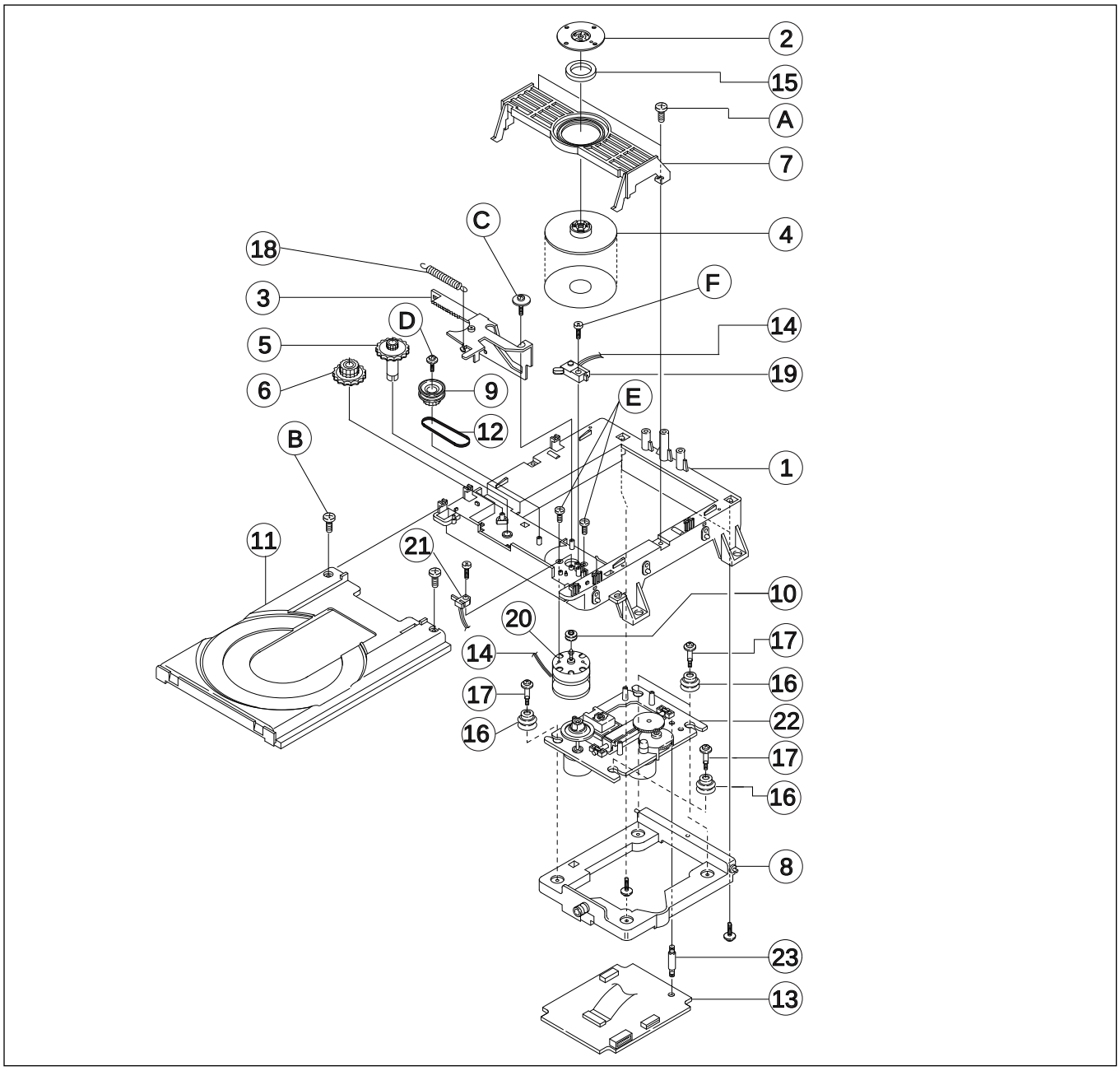


Figure 3-4

3-5 CD Deck

1. Remove the Shaft ① .
2. Lift the P/U ② .
   Note : Take extreme care not to touch the surface of lens.
3. Lift the Center-ring ③ .
4. Remove the Spring-T/Table ④ .
5. Remove the Turn-Table (M) ⑤ .
6. Remove 2 screw ⑥ and then remove the Motor-Spindle ⑦ .
7. Remove the Gear-Cover ⑧ by pushing the hook.
8. Remove the Gear(c) ⑨ by pushing the hook.
9. Lift the Gear(b) ⑩ .
10. Remove the Gear(a) ⑪ .
11. Remove 2 screws ⑫ and then remove the Feed-Motor ⑬ .
12. Remove the Deck(M)-Chassis ⑭.

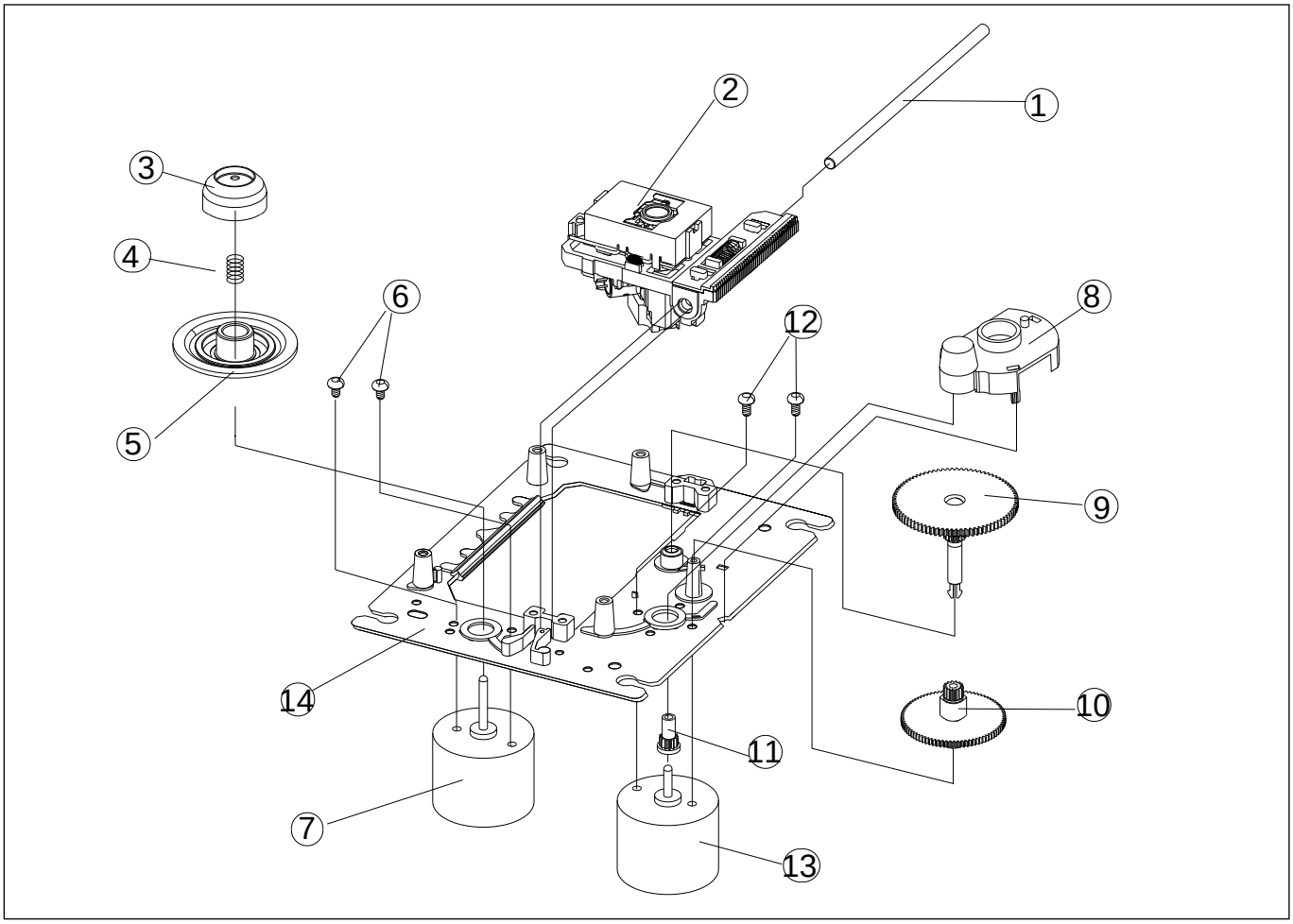
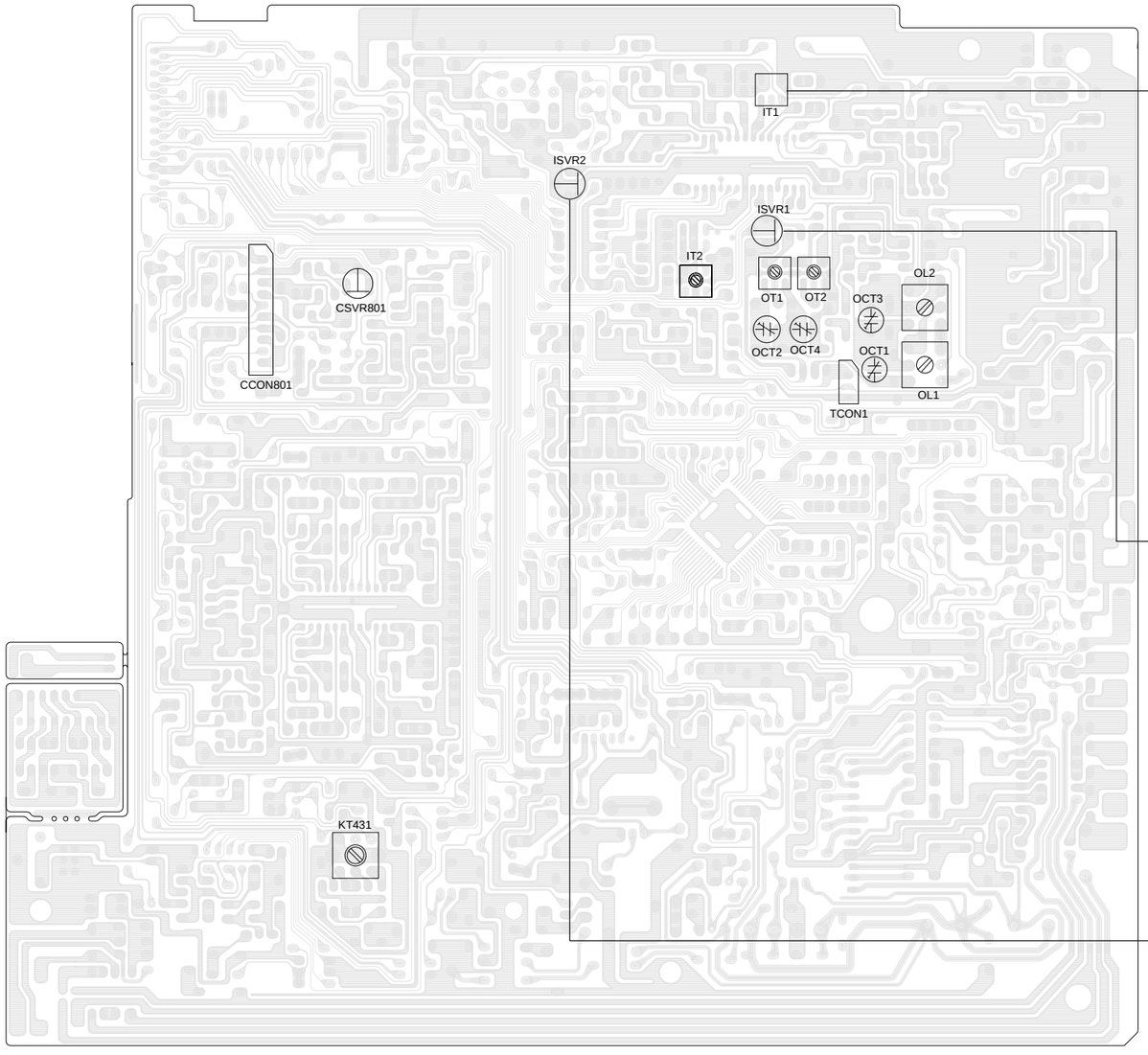


Figure 3-5

4-1 Tuner



FM T.H.D Adjustment	
SSG FREQ.	98MHz
Adjustment point (IT1)	FM DETECTOR COIL
Minumum output(Figure 4-1)	

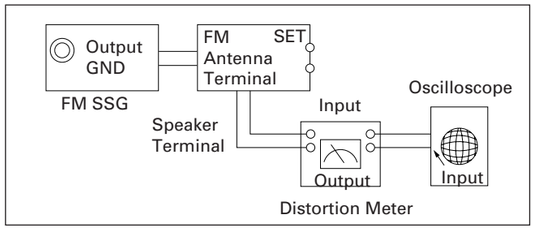


Figure 4-1 IF CENTER and T.H.D Adjustment

FM Search Level Adjustment	
SSG FREQ.	98MHz
Adjustment point (ISVR1)	SEMI-VR(50KB)
"TUNED" is shown on LCD(Figure 4-2)	

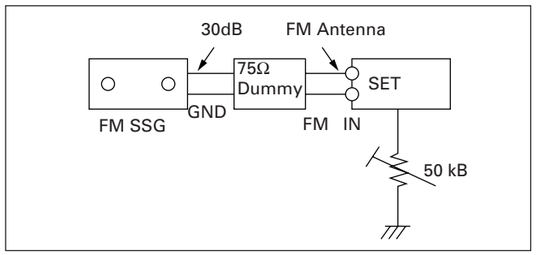


Figure 4-2 FM Auto Search Level Adjustment

FM Stereo Adjustment	
SSG FREQ.	98MHz
Adjustment point (ISVR2)	SEMI-VR(5KB)
L-CH/R-CH : Maximum(Figure 4-3)	

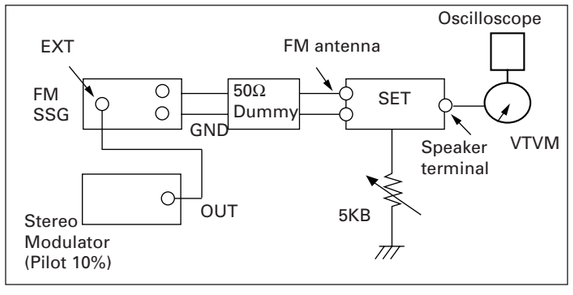


Figure 4-3 FM Stereo Separation Adjustment

4-1-1 Test Equipment

1. AM Standard Signal Generator (S.S.G) : 400Hz, 30% MOD
2. Oscilloscope
3. VTVM
4. Frequency counter
5. Loop antenna
6. Dummy load (4Ω)
7. DC voltmeter

4-1-2 Pre-Adjustment

1. Check the source voltage.
2. Set function and band switches to the band to be aligned.
3. Set the equalizer, volume and balance controls to mid position.

4-1-3 AM Adjustment

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Figure 4-5	522 KHZ	522 KHZ	IT 2	Maximum output
2	AM frequency coverage adjustment	Figure 4-4 Connect DC voltmeter to TCON1 and GND(TP1)	–	522 KHZ	OT 1	0.9V
3			–	1611 KHZ	OCT 2	9V
4	Repeat step 2 and 3 serveral times					
5	AM tracking adjustment	Figure 4-5	594 KHZ	594 KHZ	OL 1	Maximum output
6		–	1404 KHZ	1404 KHZ	OCT 1	Maximum output
7	Repeat step 5 and 6 several times					

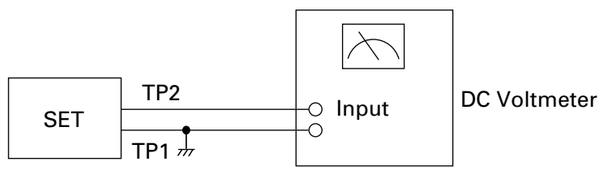


Figure 4-4 AM Frequecny Coverage Adjustment

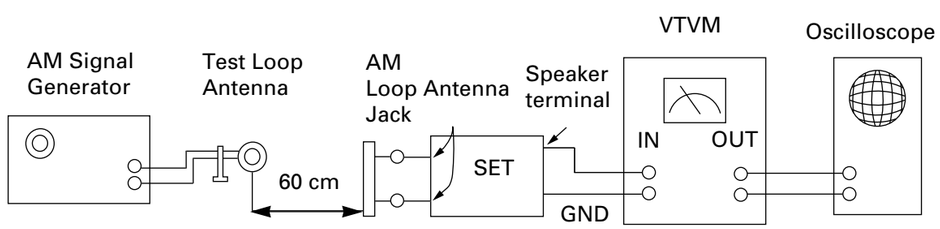
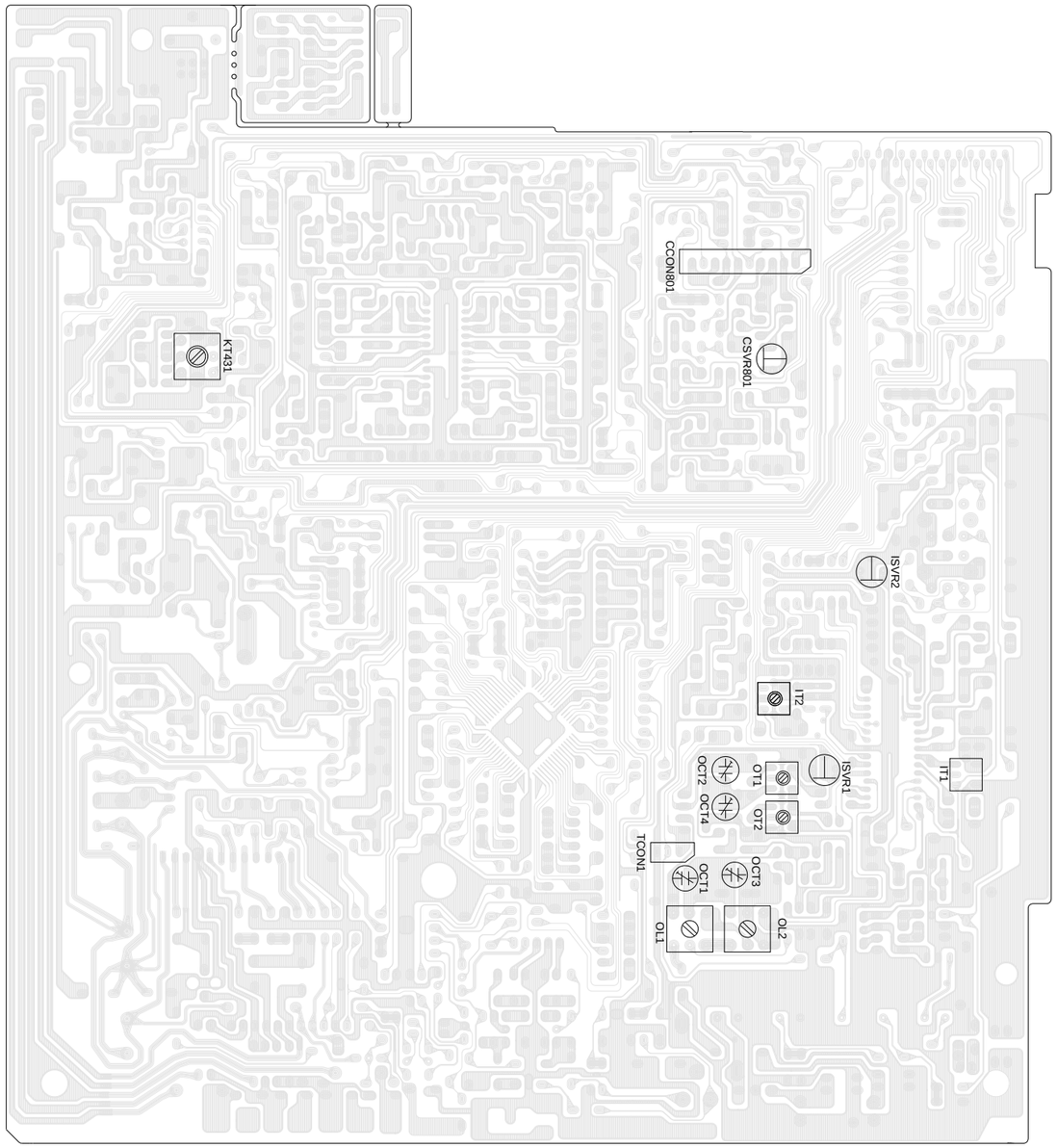


Figure 4-5 AM Tracking Adjustment

4-2 Cassette Deck



4-2-1 Additional Test Equipment : Testing Tape

1. MTT-111 (or equivalent) : Test tape on which 3 KHz signal is recorded (Tape speed adjustment).
2. MTT-114 (or equivalent) : Test tape on which 10 KHz signal is recorded (Azimuth adjustment).

Item	Connection	Preparation	Adjustment point	Remark
Tape speed (normal speed) adjustment	Figure 4-6	Insert MTT-111 to Deck A or B. Press PLAY button.	CSVR801	3 KHz
AZIMUTH (DECK A,B) adjustment	Figure 4-8	Insert MTT-114 to Deck A and Deck B. Press PLAY button.	Figure 4-7	Maximum output and identical phase of L,R channel. Set the screw after adjustment.

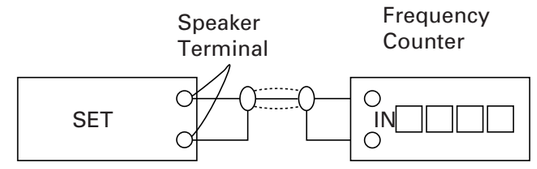


Figure 4-6

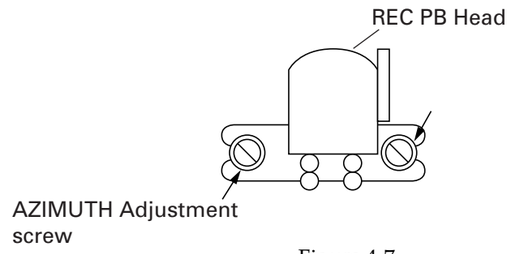


Figure 4-7

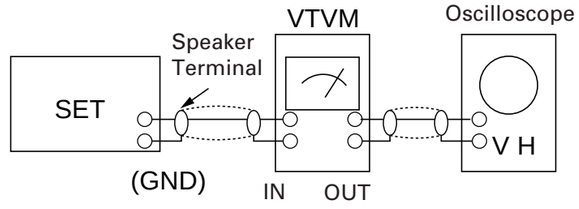
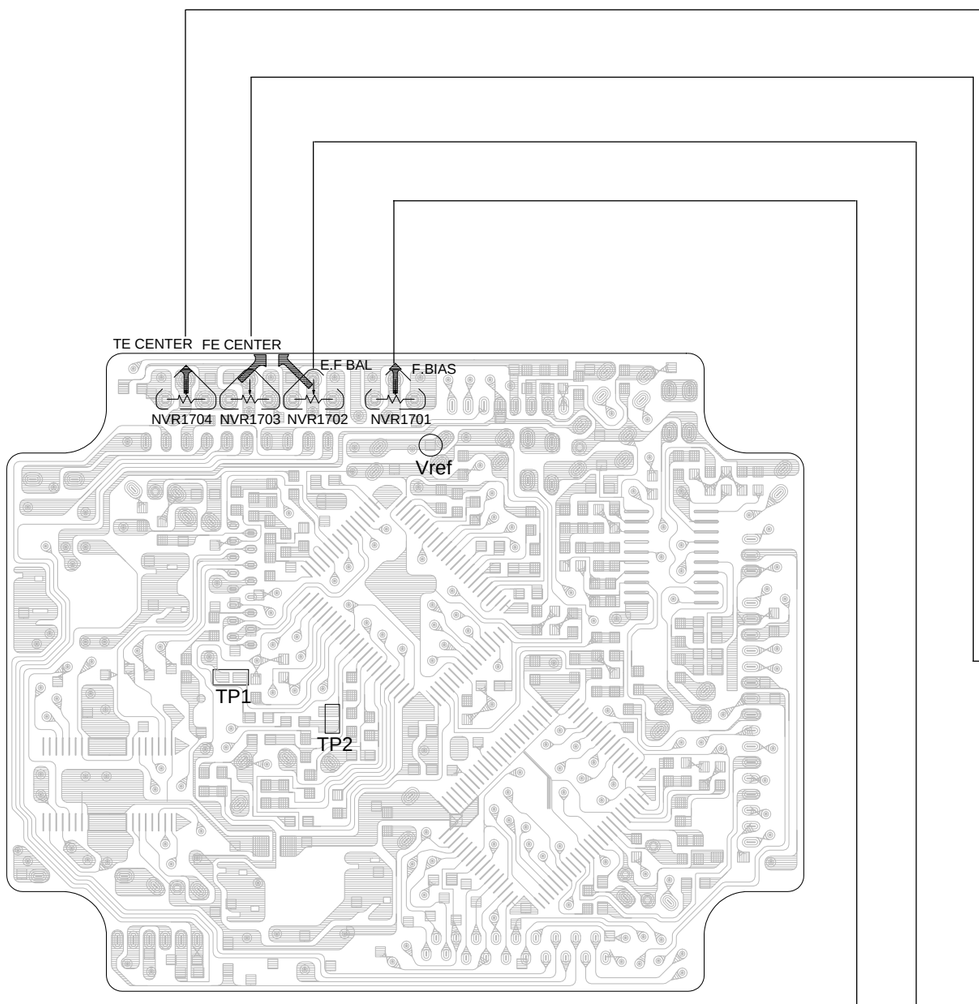


Figure 4-8

4-2-2 Recording Bias Adjustment

1. Connect frequency counter KC434 and press the REC button.
2. Adjust KT431(BIAS OSC COIL) until frequency counter reads 85¡ 0.2KHz.

4-3 CD



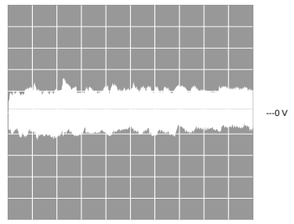
4-3-1 To Adjust FOCUS BIAS(STOP mode)

1. Set Volt/Div of the oscilloscope to DC 100mV.
2. Ground the scope input and set the waveform to 0V, DC range.
3. Connect the GND terminal of the oscilloscope to Vref, and (+) terminal to center of TP1.
4. Set NVR1701 to 0mV.

4-3-2 To Adjust Tracking Gain (PLAY mode)

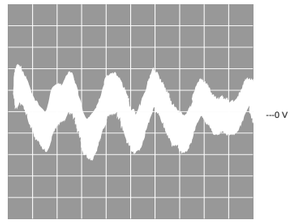
1. Connect the GND terminal of the oscilloscope to Vref and (+) terminal to TP2.
2. Load and play the disc
3. While the disc is running adjust the gain with NVR1704 as shown below.

Normal frequency



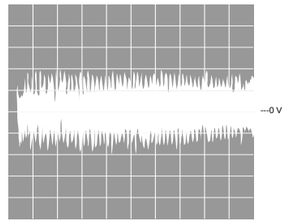
VOLT/DIV : 0.2V
TIME/DIV : 2mS

Low frequency



VOLT/DIV : 0.2V
TIME/DIV : 2mS

High frequency

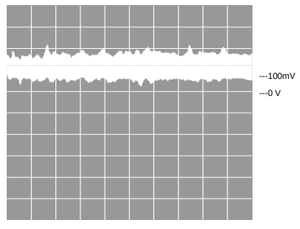


VOLT/DIV : 0.2V
TIME/DIV : 2mS

4-3-3 To Adjust Focus Gain (PLAY mode)

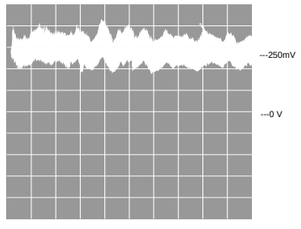
1. Connect the GND terminal of the oscilloscope to Vref and (+) terminal to TP1.
2. Load and play the disc
3. While the disc is running adjust the gain with NVR1703 as shown in the following figure.

Normal frequency



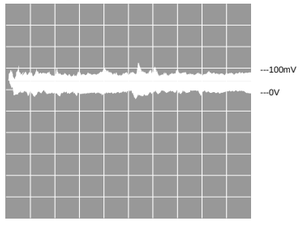
VOLT/DIV : 0.1V
TIME/DIV : 2mS

Low frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

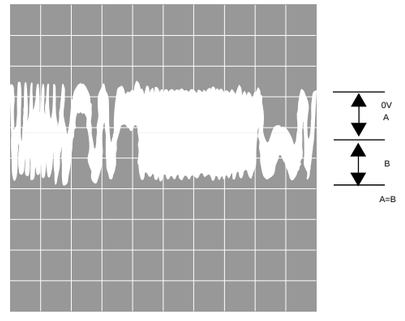
High frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

4-3-4 To Adjust E/F Balance (PLAY mode)

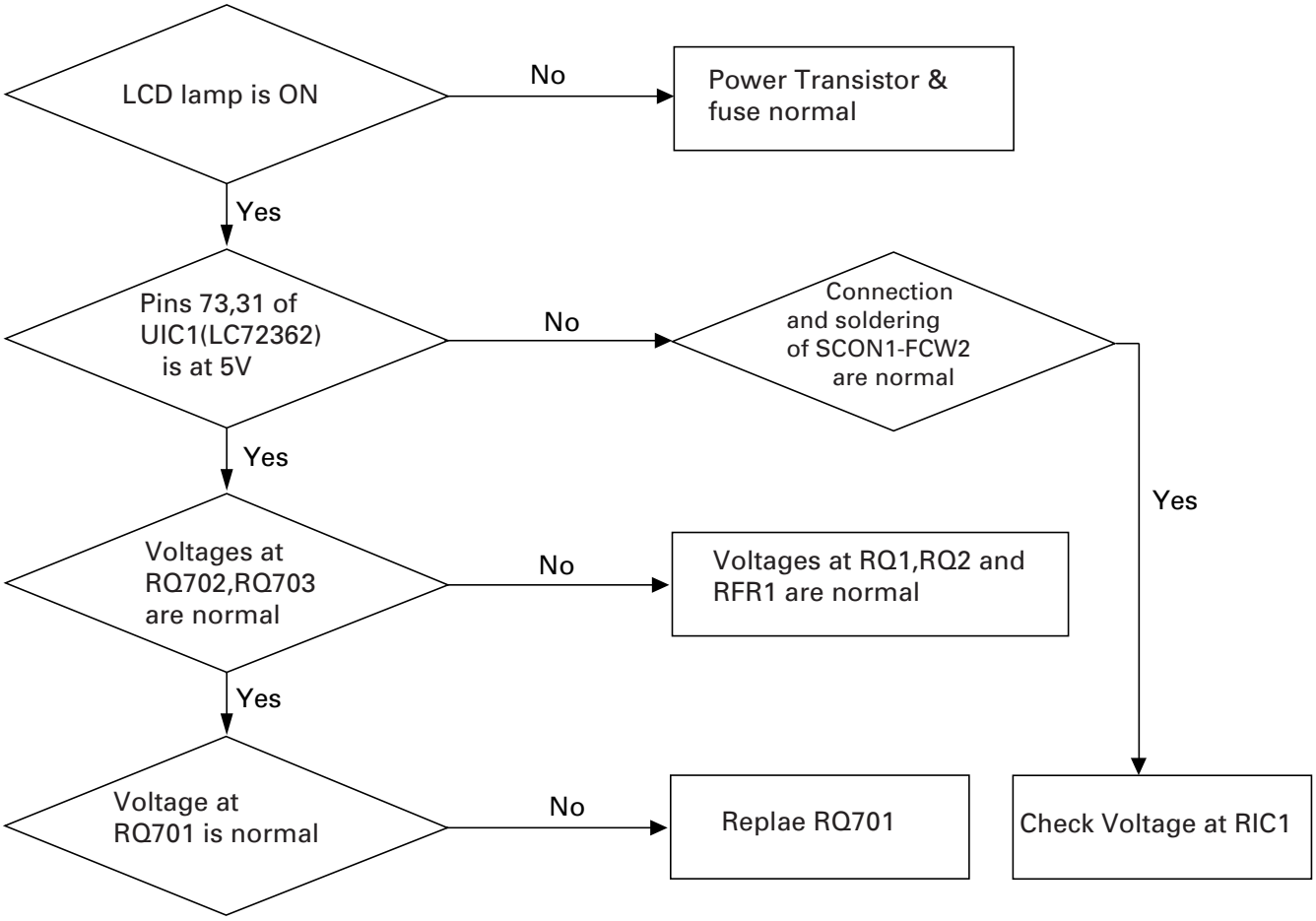
1. Set TIME/DIV of the oscilloscope to 2mS.
2. Set Volt/DIV of the oscilloscope to 0.5V.
3. Ground the scope input and set to DC and then set the DC range.
4. Connect the GND terminal of the oscilloscope to Vref and (+) terminal to center to TP2.
5. Load and play the disc.
6. Turn NVR1704 counterclockwise to the minimum value.
7. Raise NVR1702 and adjust the waveform so that its middle comes to GND of the oscilloscope (or until the upper half of waveform becomes symmetrical to the bottom half, A=B)
8. Adjust NVR1704 (arrow) for normal sound.



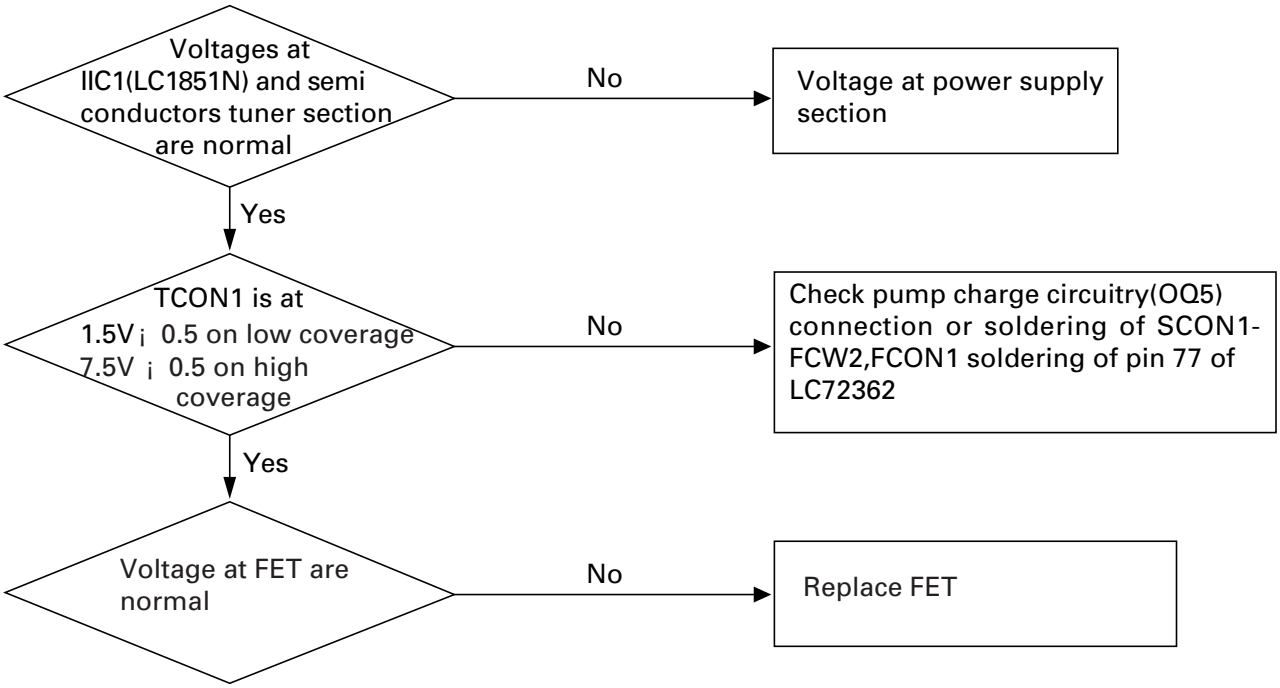
6. Troubleshooting

6-1 Main

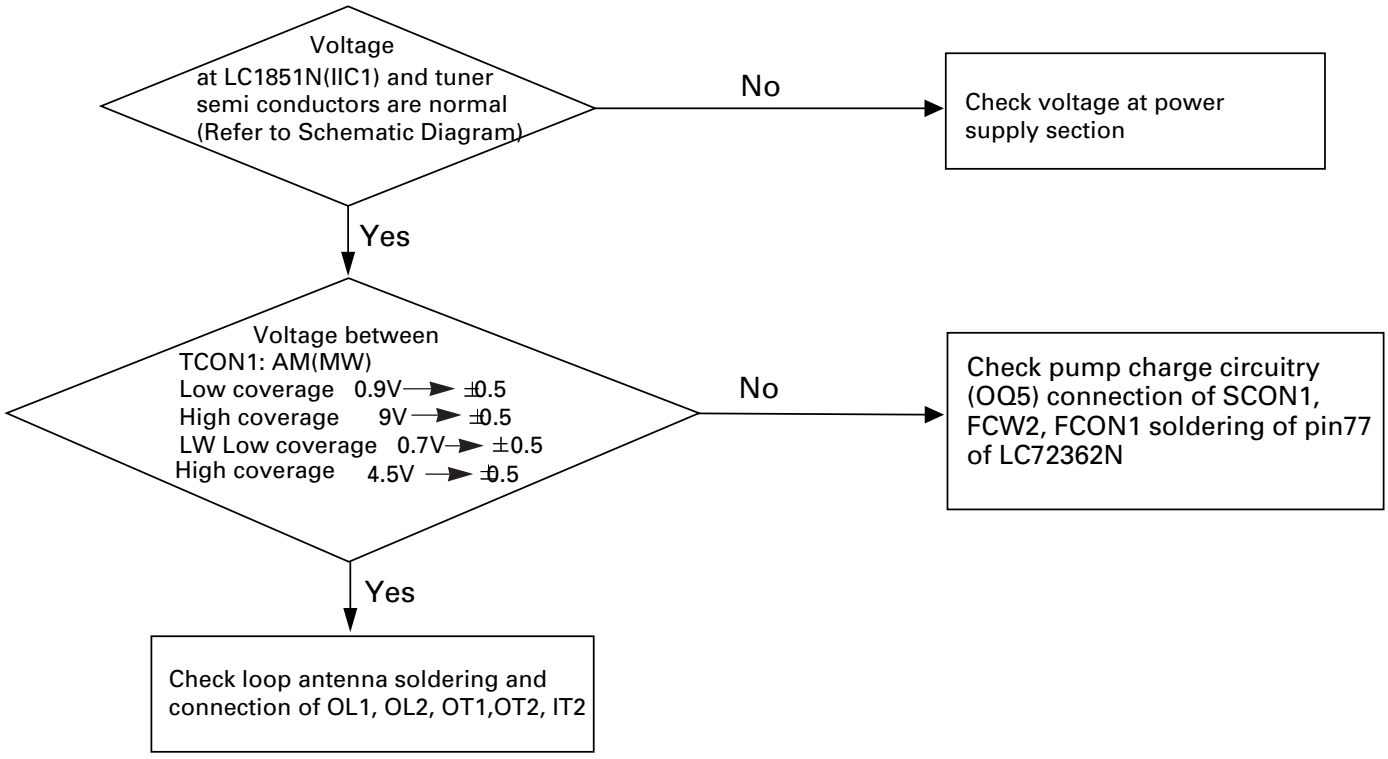
6-1-1 Power Malfunction



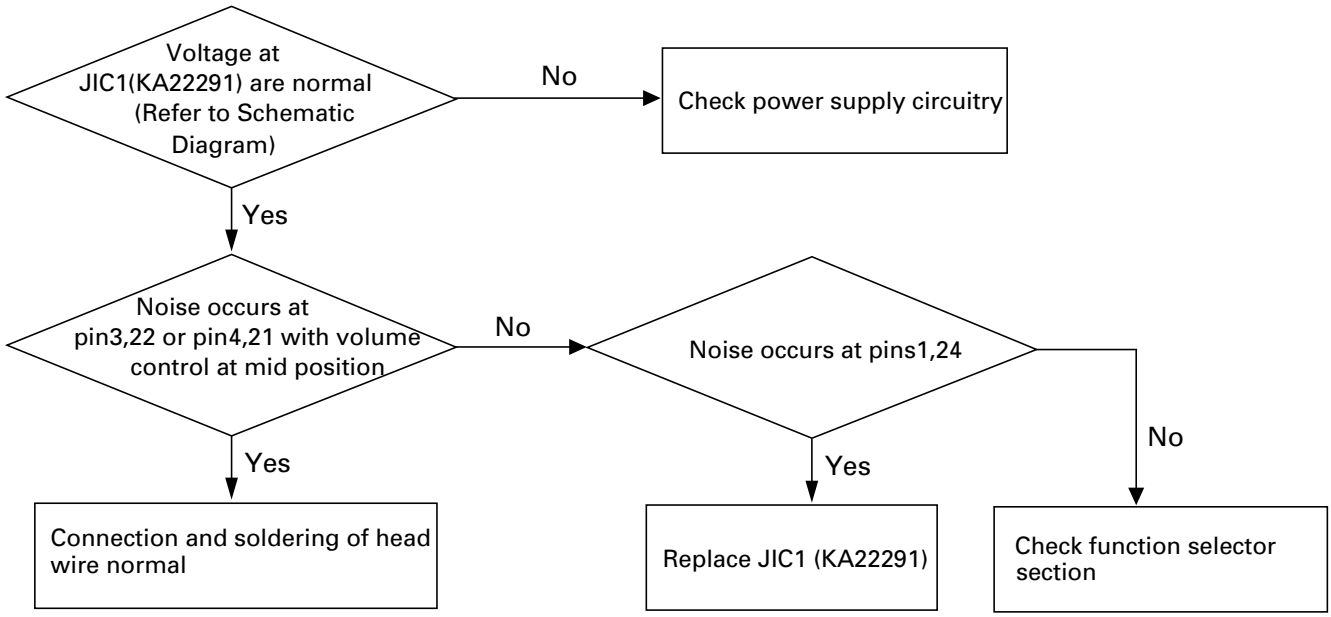
6-1-2 FM No Sound


Voltages at IIC1(LC1851N) and semi conductors tuner section are normal
No
Voltage at power supply section
Yes
TCON1 is at 1.5V ¡ 0.5 on low coverage 7.5V ¡ 0.5 on high coverage
No
Check pump charge circuitry(OQ5) connection or soldering of SCON1-FCW2,FCON1 soldering of pin 77 of LC72362
Yes
Voltage at FET are normal
No
Replace FET

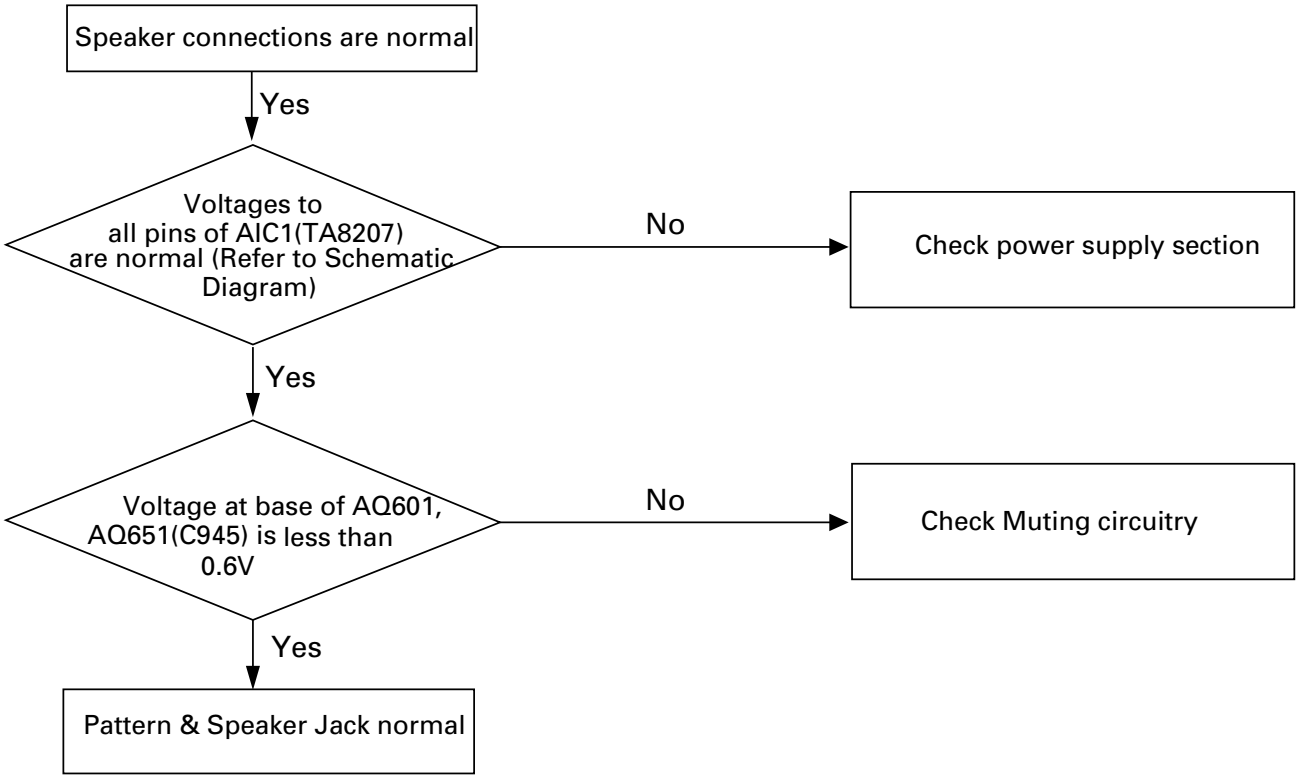
6-1-3 AM No Sound


Voltage at LC1851N(IIC1) and tuner semi conductors are normal (Refer to Schematic Diagram)
No
Check voltage at power supply section
Yes
Voltage between TCON1: AM(MW)
Low coverage 0.9V → ±0.5
High coverage 9V → ±0.5
LW Low coverage 0.7V → ±0.5
High coverage 4.5V → ±0.5
No
Check pump charge circuitry (OQ5) connection of SCON1, FCW2, FCON1 soldering of pin77 of LC72362N
Yes
Check loop antenna soldering and connection of OL1, OL2, OT1,OT2, IT2

6-1-4 Tape Not Playing

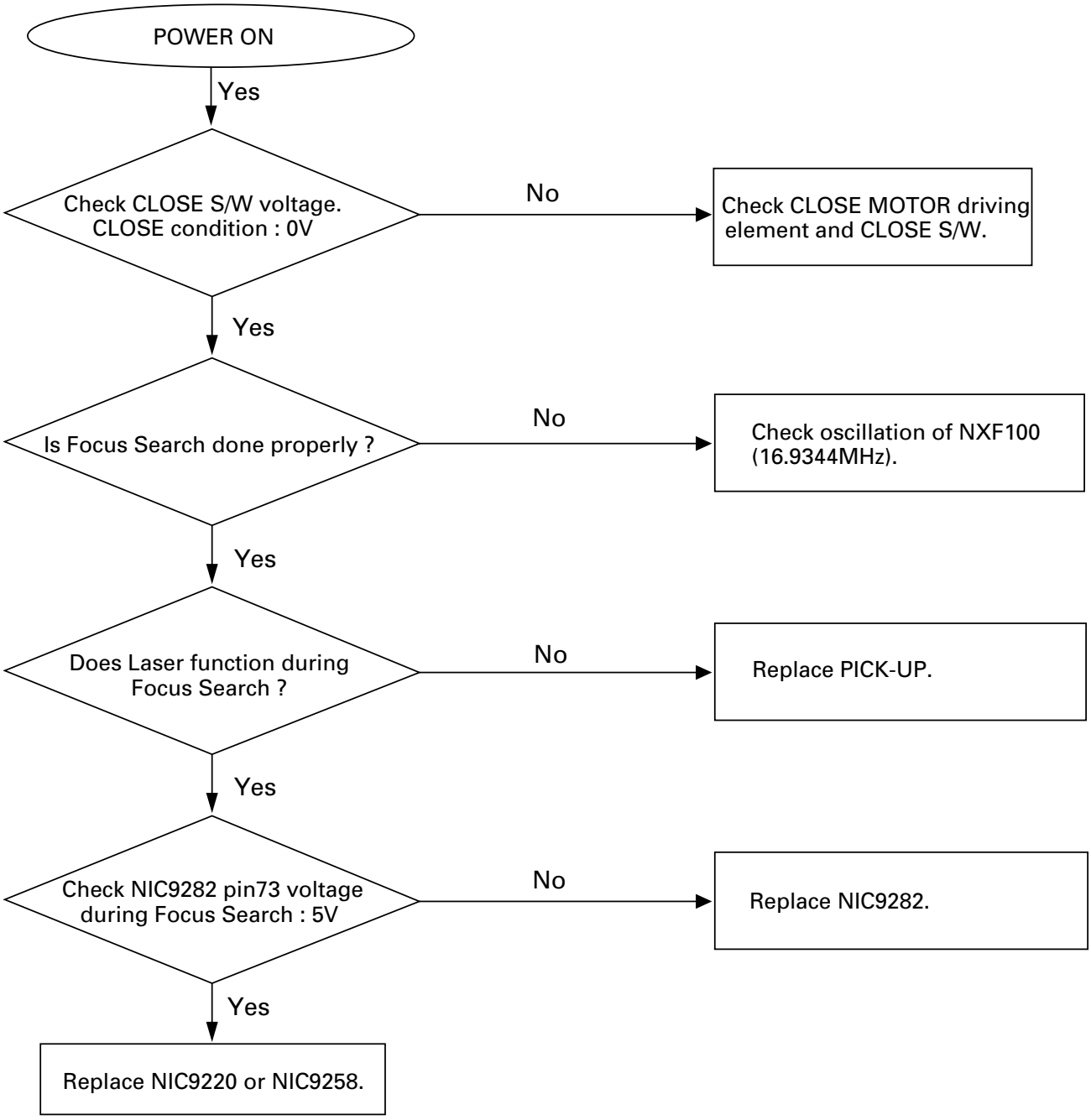


6-1-5 Audio Output Problem

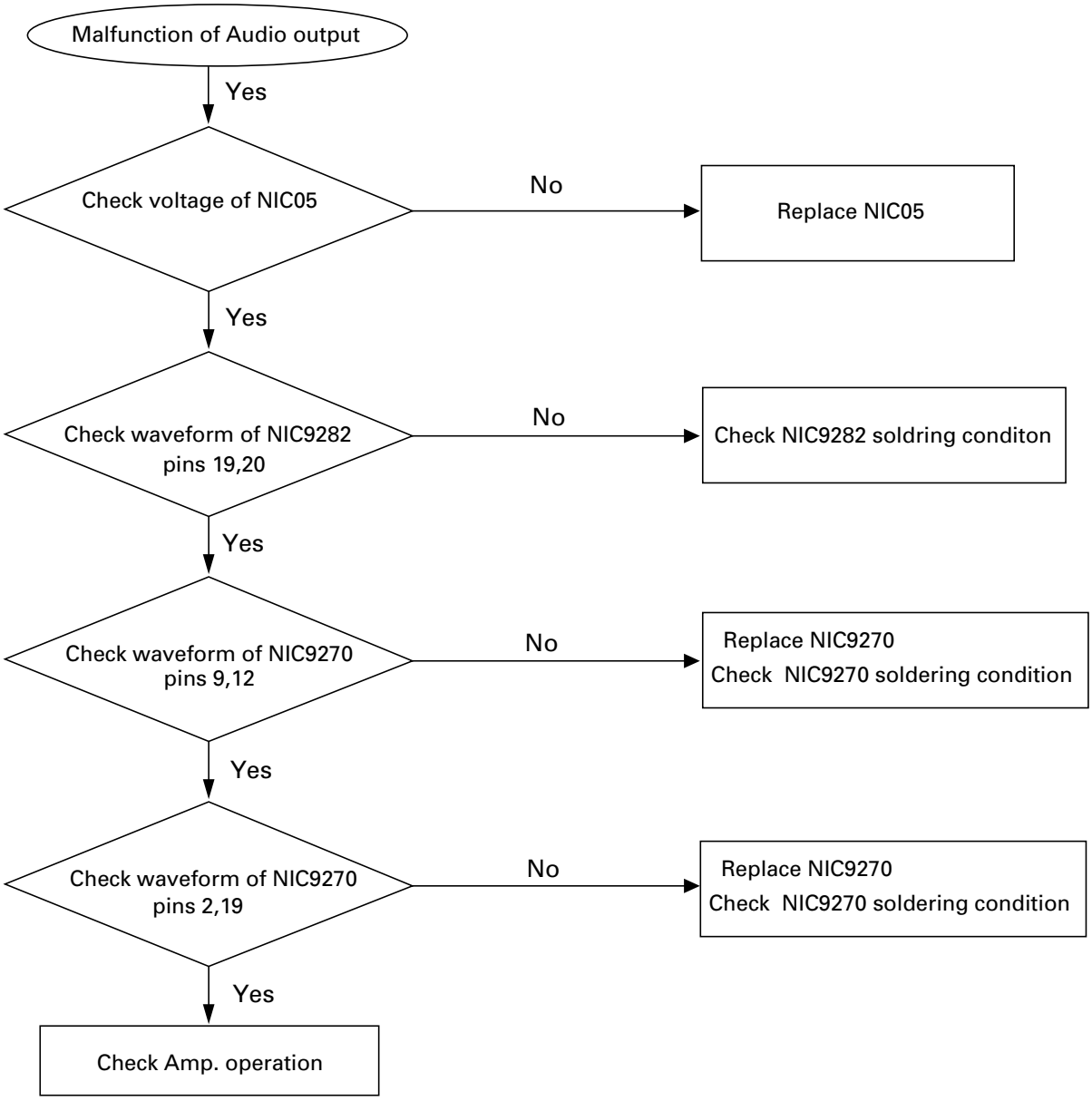


6-2 CD

6-2-1 Malfunction of DISC Revolution

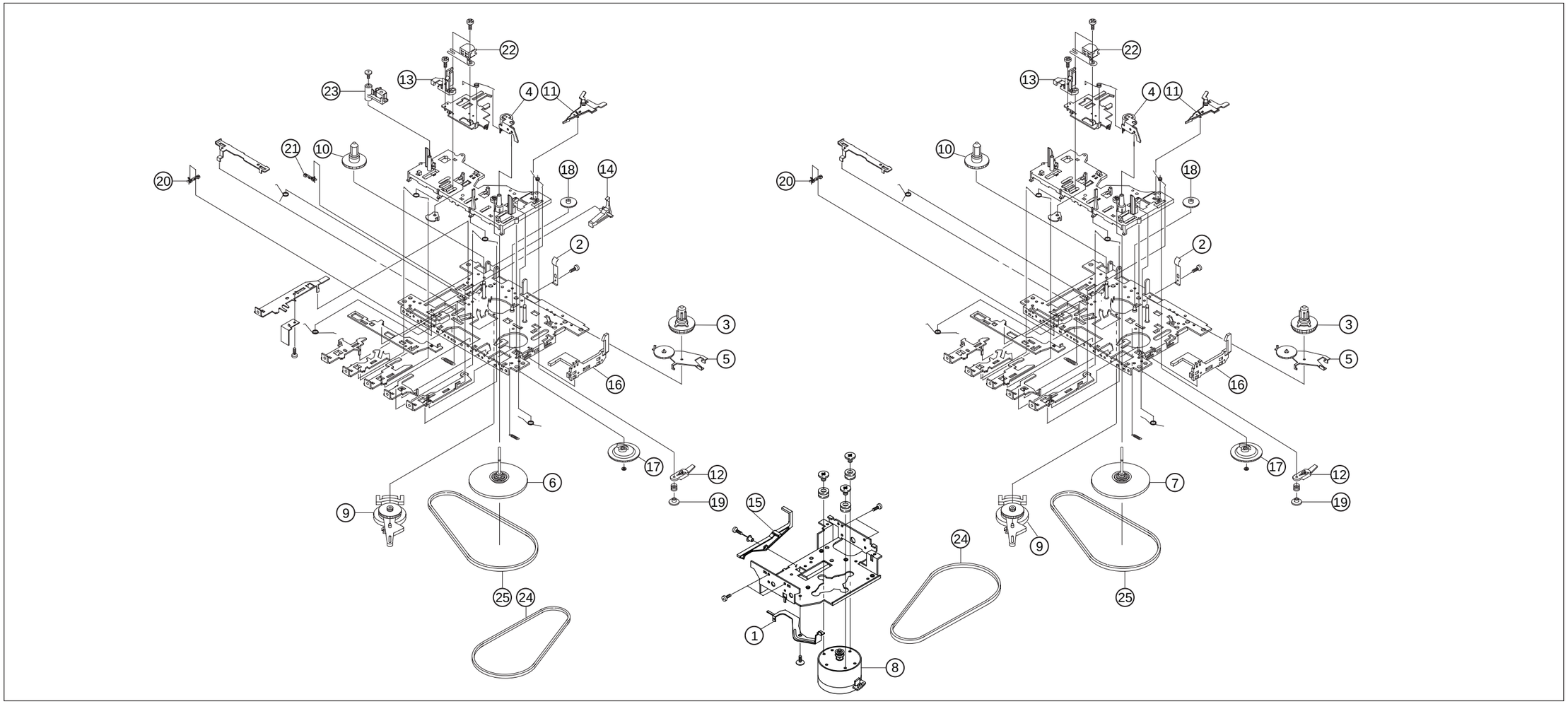


6-2-2 Malfunction of Audio output



7. Exploded Views and Parts List

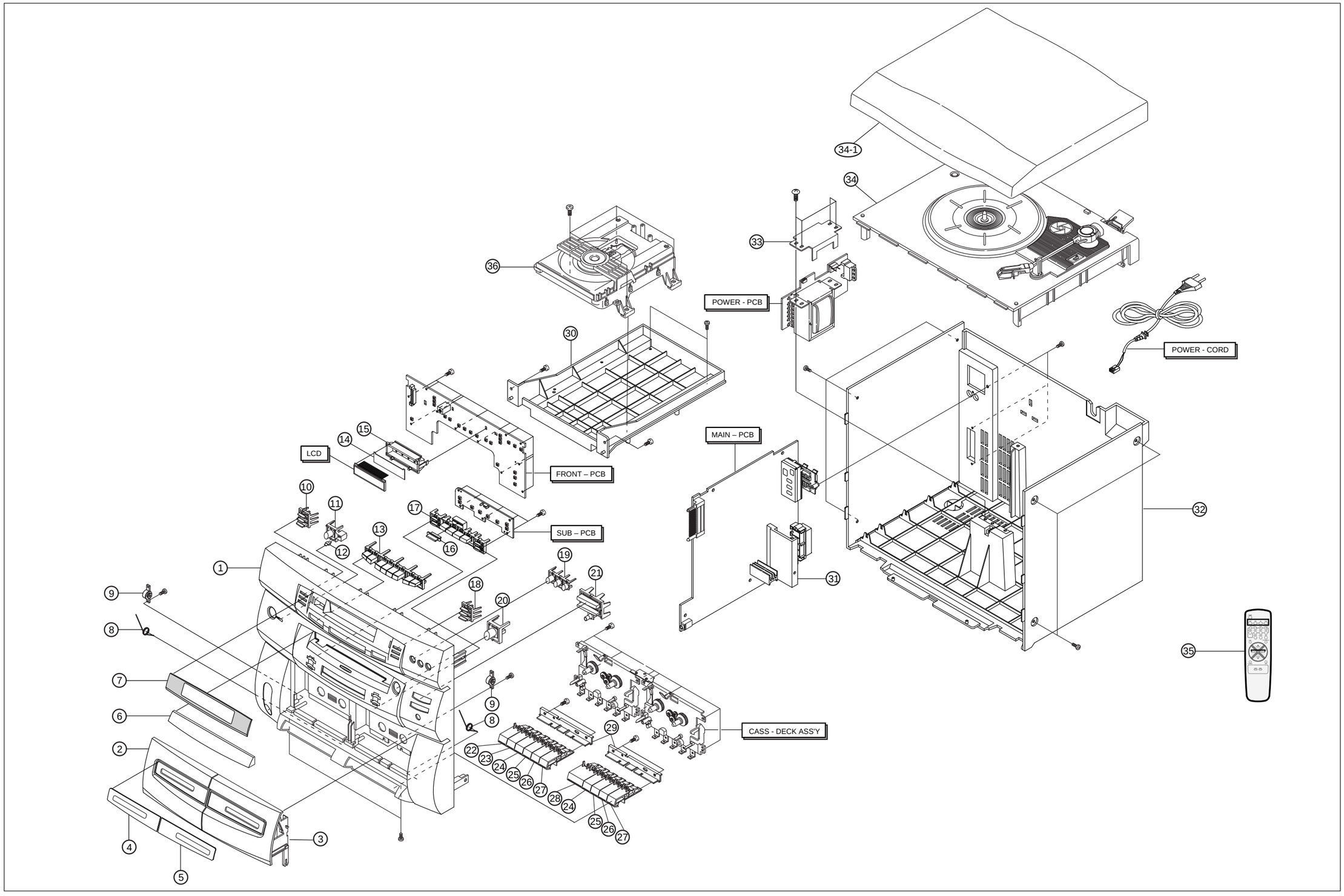
7-1 Cassette View and Parts List



No.	New Part No.	Description	Specification	Old Part No.
	AH59-20004F	DECK-CASSETTE	ADR2040FW	
1	AH81-10026X	LEVEL-SYNCHRO	11134-01280AA	10000-607-186
2	AH81-10026C	SPRING PACK	51299-02506XC	10000-607-146
3	AH81-10025B	TAKE UP REEL ASS'Y	ADR28-010	10000-607-101
4	AH81-10025D	PINCH ARM ASS'Y	ADR26-001	10000-607-103
5	AH81-10025E	IDLER ARM ASS'Y	ADR02-042	10000-607-104
6	AH81-10025F	FLYWHEEL GEAR S ASS'Y	ADR15-021	10000-607-105
7	AH81-10025G	FLYWHEEL GEAR D ASS'Y	ADR15-022	10000-607-106
8	AH81-10021T	MOTOR	EG530YD2B	10000-502-020
9	AH81-10025J	FR ARM ASS'Y	ADR22-012	10000-607-108
10	AH81-10025K	REEL GEAR ASS'Y	11128-00045AA	10000-607-109
11	AH81-10025T	ARM-SENSOR	11102-00530AA	10000-607-117
12	AH81-10025M	PAUSE LOCK CAM	11116-00011A	10000-607-111

No.	New Part No.	Description	Specification	Old Part No.
13	AH81-10025P	HEAD BASE M	11105-00031AA	10000-607-113
14	AH81-10026B	LEVER REC SAFETY	11134-01000A	10000-607-145
15	AH81-10026W	LEVER RELEASE	11134-01240AA	10000-607-184
16	AH81-10026M	LEVER EJECT(F)	11134-01220AA	10000-607-160
17	AH81-10025Q	CAM GEAR	11128-00393AA	10000-607-114
18	AH81-10025R	F.F GEAR	11128-00055AA	10000-607-115
19	AH81-10025S	PAUSE CAP	11116-00011AA	10000-607-116
20	AH81-10026T	LEAF SW (MAIN)	MSW1541 X ACV	10000-607-178
21	AH81-10026U	LEAF SW (REC)	MSW 1716CV	10000-607-179
22	AH81-10022E	R/P HEAD	MS15R-AA2N1	10000-523-008
23	AH81-10026P	MGARM ASS'Y	11102-00520AA	10000-607-162
24	AH81-10026L	BELT MAIN	59.7 PI X 1.0T	10000-607-159
25	AH81-10026H	BELT SUB	34.7 PI X 1.0T	10000-607-128

7-2 Main Exploded View and Parts List



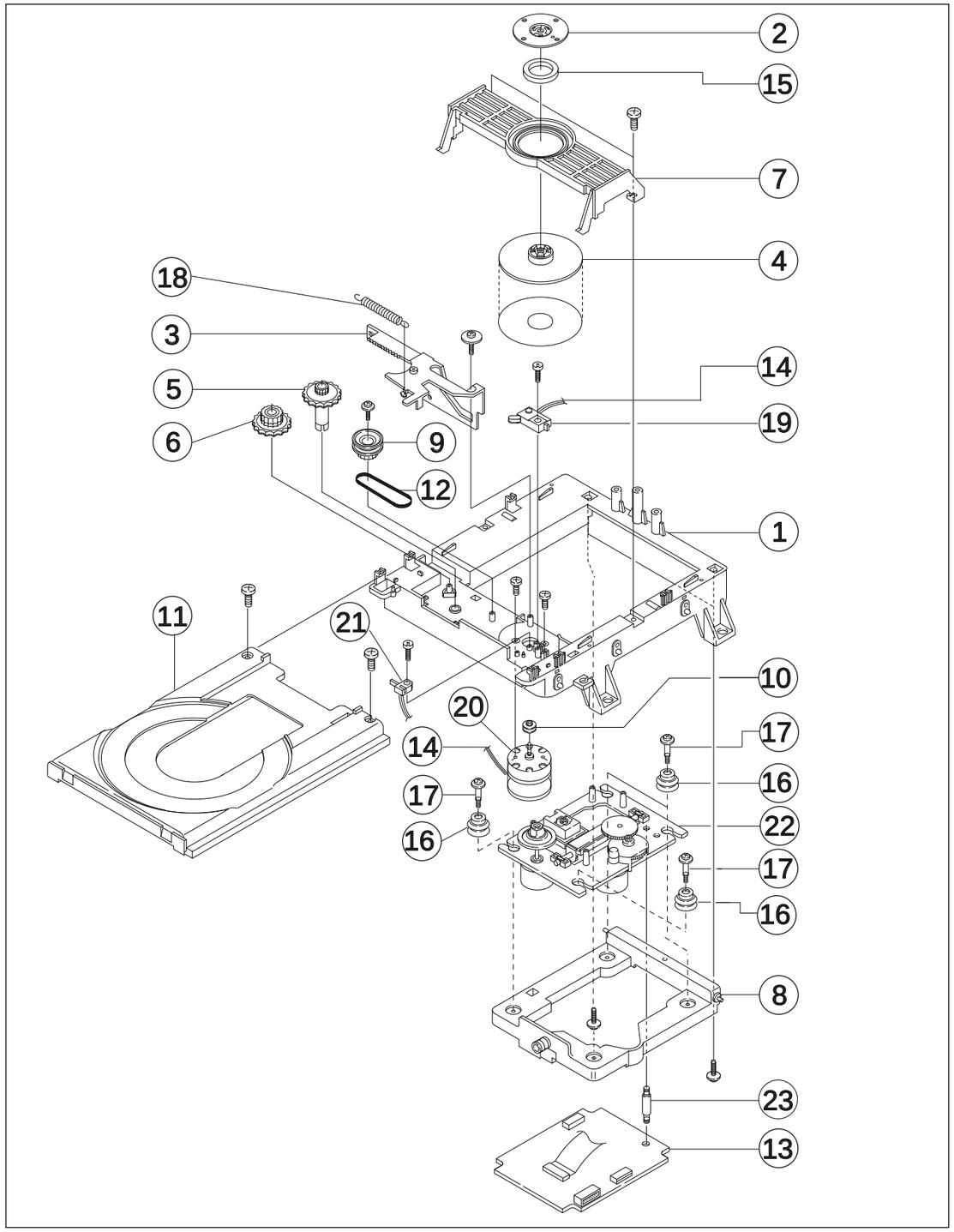
7-2-1 Main Parts List

No.	New Code No.	Description	Specification	Old Code No.
1	AH64-30337B	CABINET-FRONT	-,MIPS,94HB,T2.5,-,BL	
2	AH64-50188B	DOOR-CASS,A	-,ABS,94HB,T2.5,-,BLK,-	
3	AH64-50189B	DOOR-CASS,B	-,ABS,94HB,T2.5,-,BLK,-	
4	AH64-40338A	WINDOW-DOOR(A)	PC,-,T0.7,BLK,-,BLK,-	14074-0310-00
5	AH64-40339A	WINDOW-DOOR(B)	PC,-,T0.7,BLK,-,	14074-0311-00
6	AH64-50190B	DOOR-CD	ABS,94HB,T2.5,-,BLK,-	
7	AH64-40335B	WINDOW-TUNER	-,ACRYL,-,-,CLR,-,	
8	AH61-60241E	SPRING-DOOR	-,TS,STS304,PI0.9,OD8.6,-,SCM6700	
9	AH61-80030A	DAMPER-ASSY	-,POM,M0.8,GI30,BLK,-,	
10	AH64-10869A	KNOB-TUNER(A)	ABS,94HB,BLK,T1.5,	14083-0877-00
11	AH64-10887B	KNOB-POWER	-,ABS,94HB,BLK,-,SCM6700	
12	AH67-10094A	LENS-POWER	PMMA,-,-,-,MILKEY,SCM6700	
13	AH64-10871B	KNOB-FUNCTION	-,ABS,94HB,BLK,-,SCM6700	
14	AH67-40024A	FILTER-LCD	PC,T0.5,-,-,-,-,WHT,SCM6700	
15	AH61-20335A	HOLDER-CD	ABS,94HB,WHT,T1.5,SCM6700	
16	AH67-10097A	LENS-PLAY(CD)	PMMA,-,-,-,MILKEY,SCM6700	
17	AH64-10872B	KNOB-SKIP	-,ABS,94HB,BLK,-,SCM6700	
18	AH64-10870A	KNOB-TUNER(B)	ABS,94HB,BLK,T1.5,SCM6700	14083-0878-00
19	AH64-10886A	KNOB-EQ	ABS,94HB,BLK,T1.5,SCM6700	14083-0880-00
20	AH64-10890B	KNOB-OP/CL	-,ABS,94HB,BLK,-,SCM6700	
21	AH64-10873B	KNOB-PLAY,CD	-,ABS,94HB,BLK,-,SCM6700	
22	AH64-10875B	KNOB-DECK,REC	-,ABS,94HB,BLK,-,SCM6700	
23	AH64-10876B	KNOB-PLAY,S	-,ABS,94HB,BLK,-,SCM6700	
24	AH64-10876D	KNOB-REW	-,ABS,94HB,BLK,-,SCM6700	
25	AH64-10876C	KNOB-DECK,FF	-,ABS,94HB,BLK,-,SCM6700	
26	AH64-10876E	KNOB-DECK,SJ/EJ	-,ABS,94HB,BLK,-,SCM6700	
27	AH64-10880B	KNOB-DECK,PAUSE	-,ABS,94HB,BLK,-,SCM6700	
28	AH64-10874B	KNOB-PLAY,L	-,ABS,94HB,BLK,-,SCM6700	
29	AH61-10573A	BRACKET-DECK	SECC,-,T0.8,-,-,SCM6700	13014-0378-00
30	AH61-10576A	CHASSIS-MECHA	ABS,94HB,-,BLK,-,SCM6700	12201-0174-00
31	AH62-30107A	HEAT-SINK	-,AL,-,T6.0,-,WHT,-,SCM6700	
32	AH64-30338A	CABINET-BOTTOM	MIPS,94HB,T3,-,BLK,-	12000-0341-00
33	AH61-10683A	BRACKET-P/T	-,SECC,-,T1.0,NTR,-,SCM6700	
34	AH59-90012W	ASS'Y-T/T	SCM6500	
34-1	AH63-30005A	COVER-DUST	GP150,94HB,T3.0,D/BLU	
35	AH59-10080C	REMOCON-ASS'Y	-,-,-,60,SCM6700	
36	G3A8-1/C	ASS'Y -CD PACK	1-CD G3A8 CKD	

7-3 CD Pack Parts List

No.	New Code No.	Description	Specification	Old Code No.
	CMSP3M6T	DECK-CD MINI MECHA	BASIC	
1	AH61-20004A	BASE-MAIN	ABS, -, BLK, -, CMS-M1	12201-0013-00
2	AH61-10241A	BRACKET-CHUCK	SBHG, -, T0.8 WHT,-,CMS-CR1	13014-0119-00
3	AH66-50004A	CAM	PC, -, BLK,-, CMS-M1	11583-0001-00
4	AH66-90053A	TABLE-CHUCK UNION	-, ABS. -, BLK,-, CMSA3	12223-0015-00
5	AH66-20007A	GEAR-A	NYLON12,M0.5/M0.5,Z17/45,-, -,	11474-0006-00
6	AH66-20008A	GEAR-B	POM,M0.5/M0.8, Z19/Z46, -, -,	11474-0007-00
7	AH61-20245A	HOLDER-CHUCK	ABS,94HB,BLK,-,CMS-M1	13329-0013-00
8	AH66-30001B	LEVER-LIFTER DECK(P)	PC, -, -, -, CMSP3	11532-0004-01
9	AH66-10001A	PULLEY-GEAR	POM,BLK,CMS-M1	11504-0001-00
10	AH66-10002A	PULLEY-MOTOR	POM,BLK,CMS-M1	11504-0002-00
11	AH66-90009B	TRAY-M1	ABS,-,BLK,-,CMS-M1	13602-0001-01
12	AH66-60001A	BELT-PULLEY	NEOPLENE,T1.5, 2%,L78.8,BLK	11494-0001-00
13	AH90-10346A	ASSY-PCB	G3A8	19129-0357-03
14	AH39-20001F	LEAD-CONNECTOR ASS'Y	51004,-,6P,300MM, 1007#28	13070-046-125
15	3302-000158	MAGNET-FERRITE	AC,-,3500-3800G,2.6-3.2MG0E,30	14014-500-600
16	AH73-10012A	RUBBER-CD	SI RUBBER, -, CMS-M5M6C,BLU	16174-503-411
17	AH61-50182B	SHAFT-CD	FE,D2.6,L10.5, -, -,	15104-531-710
18	AH61-60010A	SPRING-CAM	ES,STS-W,PI0.2,OD3.2,-,CMS-M1	12724-0010-00
19	3409-000135	SWITCH-LEAF	16V,1A,70GF,SPST	B3022-0004
20	AH31-10021A	MOTOR-DC	RF-500TB,9VDC/130MA	B3070-0002
21	3409-000175	SWITCH-DETECTOR	30VDC,100MA,SPST	13573-901-050
22	CMS-P30NM6	DECK-CD	CMS-P30NM6	
23	AH61-20227A	HOLDER-PCB	NYLON66,-,NTR,DAHP-18N,M	13324-0209-00

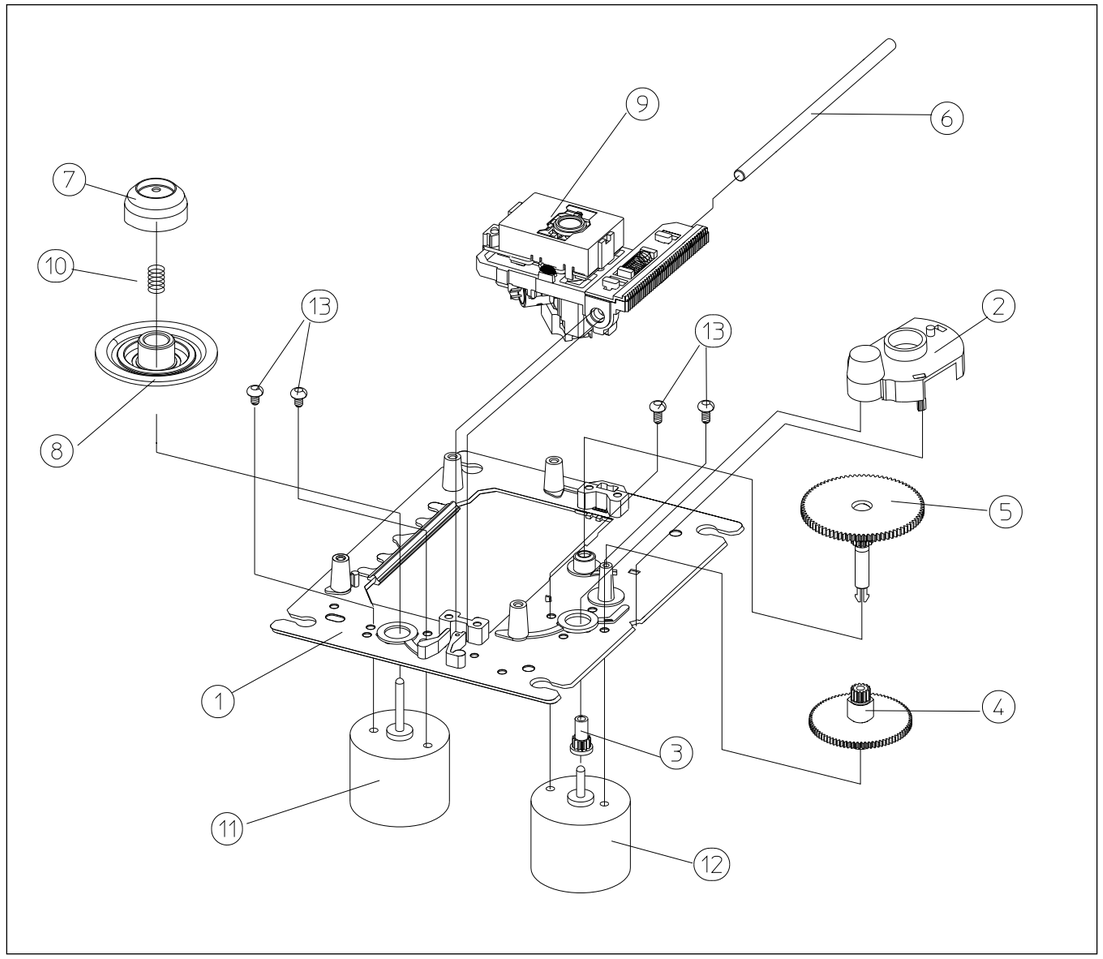
7-3-1 CD Pack Exploded View (G3A8-1/C)



7-4 CD DECK ASS'Y Parts List

No.	New Code No.	Description	Specification	Old Code No.
	CMSP30NM6	DECK -CD	BASIC	
1	AH61-10022C	CHASSIS-DECK(M)	CMSA30 POM M90-44	12001-0052-02
2	AH63-30048A	COVER-GEAR	CMS-V30 BLK ABS	13313-0057-00
3	AH66-20016A	GEAR(A)	CMS-V30 M0.3 Z13 SP POM	11474-0017-00
4	AH66-20017A	GEAR(B)	CMS-V30 M0.3 Z13 SP POM	11474-0018-00
5	AH66-20018A	GEAR(C)	CMS-V30 M0.3 Z16/Z90 SP POM	11474-0019-00
6	AH71-50036A	SHAFT-PU	CMS-V30 D3 L79 SUS420J2	11404-0041-00
7	15253-503-011	CENTER-RING	ABS+GS 20% CMS-V10N	15253-503-011
8	AH66-90018A	TURN-TABLE(M)	ABS+GS 20% CMS-V10N	12223-0003-00
9	AJ30-200013B	PICK-UP CDP	P/U SOH-A1 ROW V-P/J	*SOH-AP
10	AH61-60055A	SPRING-T/TABLE	CS STS-W PI0.4 D5.7 L9.3 CMS-V10N	12724-0062-00
11	AH31-10009A	MOTOR-SPINDLE	RF-310T-11400 43L 25V 85mA	16829-0004-00
12	AH31-10002B	MOTOR-FEED	RF-310TA 30MM NDM4RA3ETL 11.0MM	14769-057-250
13	AH60-10014A	SCREW-PH(+M2*3)	+M2X3 FE FZY W700	17008-120-032

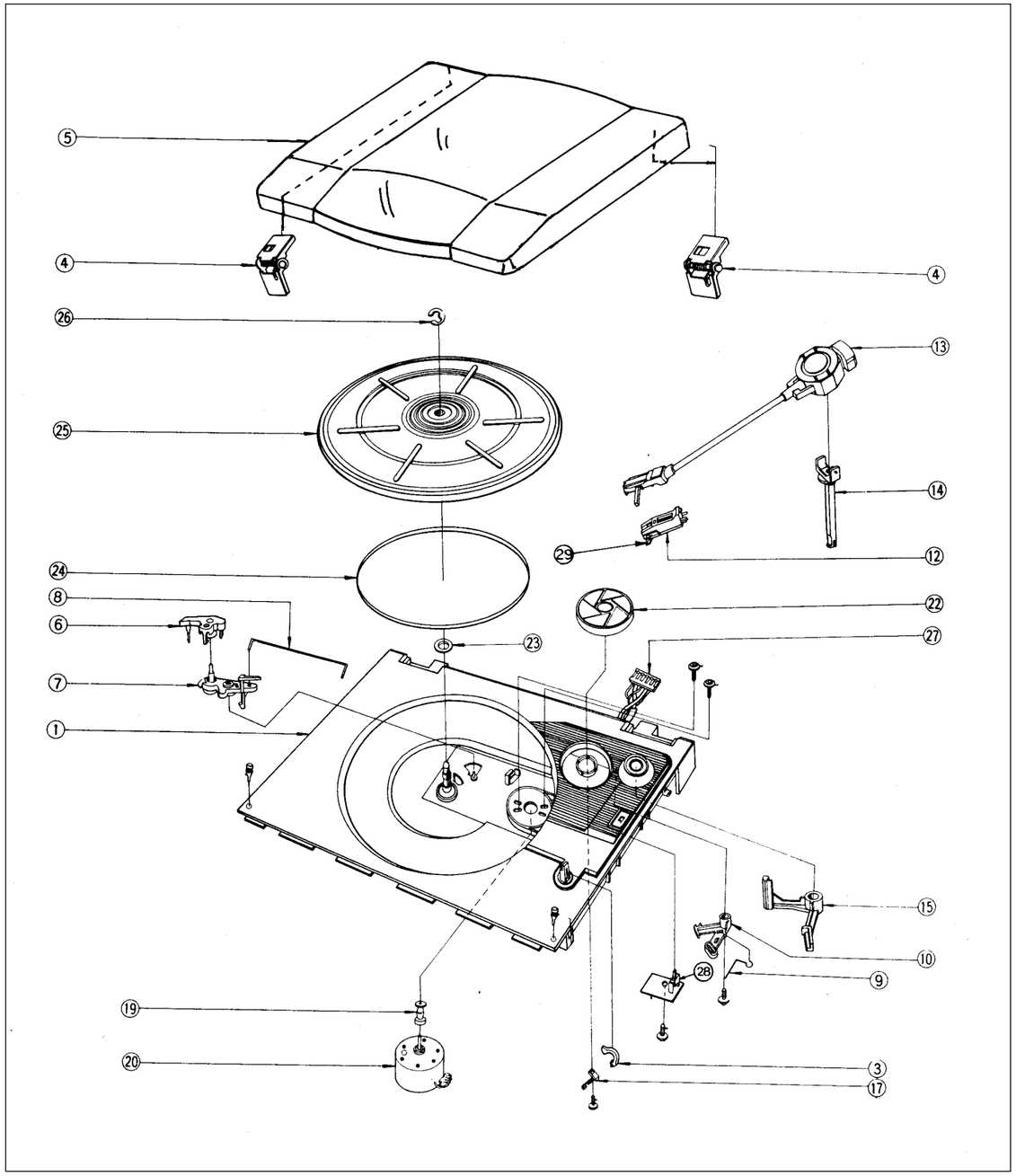
7-4-1 CD DECK Exploded View



7-5 Turn Table ASS'Y Parts List

No.	New Code No.	Description	Specification	Old Code No.
	AH59-90012W	ASS'Y-T/T	SCM6550	15029-502-970
1	AH81-10019S	CABINET-TOP	PM00010, M13000 TV	10000-451-001
3	AH81-10019T	LOCKER ARM	PM40230,ACETAL	10000-451-003
4	AH81-10019U	HINGE ASS'Y	PA40091	10000-451-004
5	AH63-30005A	COVER-DUST	PM20370, M13000 TV	13311-0070-00
6	AH81-10019W	PLATE CLUTCH	PM40211, ACETAL	10000-451-006
7	AH81-10019X	GUIDE CLUTCH	PM40221, ACETAL	10000-451-007
8	AH81-10019Y	LINK-ACTUATING	PZ40171,STS	10000-451-008
9	AH81-10019Z	SPRING-ADJUST	PZ40162,STS	10000-451-009
10	AH81-10020A	LEVER S/W	PM40051,ACETAL	10000-451-010
12	AH81-10020B	CARTRIDGE	CP-405-30	10000-451-012
13	AH81-10020C	TONE ARM ASS'Y	PM20101, ABS	10000-451-013
14	AH81-10020D	HOLDER-ARM	PM40730,ACETAL	10000-451-014
15	AH81-10020E	FEED ARM	PM30151,ACETAL	10000-451-015
17	AH81-10021F	SWITCH-LEAF	LSB61123A3	10000-451-017
19	AH81-10020G	PULLEY-MOTOR	PL40170, MBSBDI	10000-451-019
20	AH81-10020H	MOTOR	SHR2R6I	10000-451-020
22	AH81-10020J	ADAPTER EP	PM40030,ABS	10000-451-022
23	AH81-10020K	SPACER	ø7.2 X ø15 X T0.5, PE	10000-451-023
24	AH81-10020L	BELT DRIVING	PP4029, RC-WRT	10000-451-024
25	AH81-10020M	PLATTER	PM20110, M13000TV	10000-451-025
26	AH81-10020N	E-RING	E-6	10000-451-026
27		CONNECTOR-5P	SC25-05HG	10000-451-027
28	AH81-10020Q	SLIDE SWITCH	DSS-1123	10000-451-028
29		STYLUS	CP- 385 -10	10000-451-029

7-5-1 Turn Table Exploded View



8. Electrical Parts List

Loc No.	New Part No.	Description	Specification	Old Part No.
AH90-10632A	ASSY-PCB MAIN;SCM6700TE,EXP			
AH90-30473A	ASSY-COM PCB MAIN;SCM6700TE,EXP			
FD1,2,OD1,2,ID1,2	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
CD801,802,803,804,805,806				
CD807,808,809,810,811,812	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
KD401,402,403,ED1,2				
RD701	0402-000450	DIODE-BRIDGE;PBL403,200V,4.0A,DIP-4		12169-219-330
RZD704	0403-000358	DIODE-ZENER;UZ5.6BSB,5.6V,5.46-5.7V		12169-404-790
RZD701,702	0403-000379	DIODE-ZENER;UZP12B,12V,11.4-12.6V,1		12169-403-910
UZD901,RZD703	0403-000399	DIODE-ZENER;UZP9.1B,9.1V,8.5-9.6V,1		12169-403-340
OVD1	0405-000138	DIODE-VARACTOR;KV1236,20V,100NA,TO-		12169-501-005
RQ703,UQ903,JQ301,302,	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,6		12149-301-050
JQ351,352,CQ806				
CQ805,808,RQ706	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,-80V,-		12149-101-560
IQ2,CQ801,802,OQ4	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,-60V,-50		12149-101-520
PQ1L,1R	0501-000337	TR-SMALL SIGNAL;KSC1222,NPN,50V,45V		12149-301-820
IQ1	0501-000392	TR-SMALL SIGNAL;KSC838,NPN,35V,30V,		12149-301-860
KQ431,PQ1	0501-000394	TR-SMALL SIGNAL;KSC900,NPN,30V,25V,		12149-301-840
UQ904,954,AQ601,651,603	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,60V,50V,		12149-301-900
CQ803,KQ401,451				
RQ702,UQ902	0501-000610	TR-SMALL SIGNAL;KSA928A,PNP,-30V,-3		
UQ901	0502-000299	TR-POWER;KSD73,NPN,100V,60V,5A,30W,		12149-401-070
RQ701,704	0502-000303	TR-POWER;KSD882,NPN,40V,30V,3A,1W,T		12149-101-900
RQ705	0502-000407	TR-POWER;KTC4369-Y,NPN,30V,30V,3A,1		A4050-0037
IQ4	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K-22		12159-301-780
KQ403,453,402,452,JQ304,	0504-000121	TR-DIGITAL;KSR1007,NPN,300MW,22K-47		12159-301-800
JQ354,IQ3,JQ303,AQ602				
CQ809,KQ404	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K-22		
OQ5	0505-000236	FET-SILICIN;2SK583,N,50V,200MA,20OH		12139-601-450
AIC601	1201-000334	IC-POWER AMP;8207,SIP,12P,-,DUAL,-,		12119-101-290
JIC1	1201-000358	IC-PREAMP;22291,DIP,24P,-,DUAL,-,PL		A4012-0070
RIC1	1203-000276	IC-POSI.FIXED REG.;7805,TO-220,3P,-		12119-601-770
QIC1	1204-001031	IC-VOLUME CONTROL;LC75394E,QFP,64P,		
RD704,705,706,707,UD901	12169-201-080	DIODE-RECTIFIER;1N 4001,TAPE		
RR23,7244	13954-100-310	CERAMIC-PIPE;PI1.4 15MM WHT		
IR3	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3		11018-877-331
IR2	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3		11018-877-391
AR602,652	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-153
KR407,457	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-683
KR435	2001-000034	R-CARBON;220OHM,5%,1/4W,AA,TP,2.4X6		11018-277-221
UR903	2001-000042	R-CARBON;1KOHM,5%,1/4W,AA,TP,2.4X6.		11018-277-102
OR1,2,QR505,555	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
PR5L,5R,QR503,KR412,	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3		11018-877-101
JR32,KR413,409				
IR11,OR9,IR12,JR312	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
CR821,822,823,824,816				
CR826,JR321,371				
PR6R,ZR151				
AR603,653	2001-000325	R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3		11018-877-121
OR6,KR432	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-123
JR314	2001-000362	R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3		11018-877-151

Loc No.	New Part No.	Description Specification	Old Part No.
PR3L,3R	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X	11018-877-181
ZR102,152,KR408,458	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-183
IR8,JR303,304,353,354 JR310,CR802	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
IR1,OR10,IR22,CR827,828 AR601,651,605,UR904,954 QR504,554,PR1,UR907,957	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-222
IR19,20,23,CR825	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-222
KR402,452,QR502,552	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-272
JR306,356,323,373	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP,1.8X	11018-877-224
IR5	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3	11018-877-221
JR313,UR906,956 JR315,CR817,818,819 RR706,UR908	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-223
AR607,IR31	2001-000525	R-CARBON;22OHM,5%,1/4W,AA,TP,2.4X6.	11018-277-220
KR433	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-220
IR21,OR7	2001-000548	R-CARBON;270KOHM,5%,1/8W,AA,TP,1.8X	11018-877-274
AR606,656	2001-000552	R-CARBON;270OHM,5%,1/4W,AA,TP,2.4X6	11018-277-271
IR13,14,17,18	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-273
IR9,JR309,359	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X	11018-877-332
RR722	2001-000611	R-CARBON;3.9KOHM,5%,1/4W,AA,TP,2.4X	11018-277-392
JR308,358,322	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X	11018-877-392
IR4	2001-000666	R-CARBON;33OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-330
CR804	2001-000689	R-CARBON;390KOHM,5%,1/8W,AA,TP,1.8X	11018-877-394
PR4L,4R,CR829,SR205,255 SR202,252,UR905,JR311 RR720,721,718,JR372 IR15,16	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
KR410	2001-000773	R-CARBON;470KOHM,5%,1/8W,AA,TP,1.8X	11018-877-474
PR2	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3	11018-877-471
KR404,454	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-473
JR307,357	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-470
IR10,25,26 FR6,CR803,805	2001-000812	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X	11018-877-562
JR301,302,351,352,KR401,451 KR406,456,IR27,7	2001-000812	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X	11018-877-562
FR5	2001-000817	R-CARBON;5.6OHM,5%,1/8W,AA,TP,1.8X3	11018-877-569
QR501,551,CR801	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3	11018-877-561
JR305,355,KR411,PR2L,2R AR654,604,RR719	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X	11018-877-682
KR405,455,IR30,CR831	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-822
PR1L,1R	2001-000989	R-CARBON;820KOHM,5%,1/8W,AA,TP,1.8X	11018-877-824
KR403,453	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-820
RR705	2001-001050	R-CARBON(S);1.5KOHM,5%,1/2W,AA,TP,2	11018-377-152
RR709,704	2001-001138	R-CARBON(S);390OHM,5%,1/2W,AA,TP,2.	11018-377-391
RR723,724	2003-000650	R-METAL OXIDE(S);330OHM,5%,2W,AA,TP	11048-577-331
RR710,UR901	2003-000669	R-METAL OXIDE(S);390OHM,5%,1W,AA,TP	11048-477-391
RR711	2008-000127	R-FUSIBLE;10OHM,5%,2W,AA,TP,6.5X17M	11058-577-100
RR701,702,703,707	2008-000157	R-FUSIBLE;4.7OHM,5%,1/4W,AA,TP,2.6X	11058-277-479
ISVR1	2103-000461	VR-SEMI;50KOHM,30%,1/10W,TOP	11249-102-064
CSVR801,ISVR2	2103-000492	VR-SEMI;5KOHM,30%,1/10W,TOP	11249-102-024
FC3	2201-000146	C-CERAMIC,DISC;100PF,5%,50V,SL,5X3.	11407-017-101
QC507,557	2201-000377	C-CERAMIC,DISC;220PF,5%,50V,UJ,8.0*	11407-067-221
OC5	2201-000557	C-CERAMIC,DISC;470PF,10%,50V,SL,10.	11407-018-471

Loc No.	New Part No.	Description	Specification	Old Part No.
IC3,14,OC8,10,CC801 FC1,2,RC714,715,716,717	2201-000565	C-CERAMIC,DISC;47NF,20%,50V,Y5V,12.		11417-344-473
IC8,10,19,22,23 JC304,354,305,355,KC401,451 UC902,952,QC519,569	2202-000781	C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y		11449-518-101
KC404,454,JC312	2202-000785	C-CERAMIC,MLC-AXIAL;10NF,20%,16V,Y5		11447-910-103
FTZ5,6	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P		11449-518-102
KC436,437,ZC101,151	2202-000806	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y		11449-518-221
IC1,20,21,KC409	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25		11448-010-223
JC309,359	2202-000809	C-CERAMIC,MLC-AXIAL;3.3NF,20%,16V,Y		11447-619-332
QC566,516	2202-000825	C-CERAMIC,MLC-AXIAL;680PF,10%,50V,Y		11449-518-681
KC407,457,JC301,351,302 JC352	2202-000847	C-CERAMIC,MLC-AXIAL;1,8NF,0.3,50V,Y		
AC602,652	2202-000848	C-CERAMIC,MLC-AXIAL;1.5NF,0.3,50V,Y		
QC514,564	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,0.3,16V,Y		
JC307,357	2202-000853	C-CERAMIC,MLC-AXIAL;4.7NF,0.3,16V,Y		
IC2,28,OC2,IC33,FC4	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5		
QC512,562	2202-000855	C-CERAMIC,MLC-AXIAL;6.8NF,0.3,16V,Y		
SC201,251	2203-002208	C-CERAMIC,CHIP;330PF,0.1,50V,Y5P,20		
KC432,433	2301-000379	C-FILM,PEF;10NF,10%,50V,6X7X3.2MM,5		
QC511,561,AC606,656	2301-000387	C-FILM,PEF;150NF,10%,50V,12.5X15X7.		11505-714-154
QC515,565,IC24,25	2301-000390	C-FILM,PEF;15NF,10%,50V,6.5X9X3.5MM		
IC7,JC306,356	2301-000393	C-FILM,PEF;18NF,10%,50V,6.5X12.5X3.		
KC434	2301-000400	C-FILM,PEF;1NF,10%,50V,5X7X2.8MM,5M		
QC510,560,517,567	2301-000412	C-FILM,PEF;22NF,10%,50V,6.5X10.5X4M		
OC11	2301-000419	C-FILM,PEF;27NF,10%,50V,7.5X10.5X4M		
IC6	2301-000422	C-FILM,PEF;3.3NF,10%,50V,5.5X7X3MM,		
JC308,358	2301-000433	C-FILM,PEF;33NF,5%,50V,7.5X11X4MM,5		
QC513,563	2301-000456	C-FILM,PEF;56NF,10%,50V,8X12X4.5MM,		
KC405,455	2301-000476	C-FILM,PEF;82NF,10%,50V,10.5X12.5X6		11505-714-823
AC607,657	2401-000129	C-AL;1000UF,20%,16V,GP,10X16MM,-,		11609-103-102
AC605,655,608,3	2401-000303	C-AL;100UF,20%,25V,GP,6.3*11,2.5MM,		11608-104-104
RC703,707	2401-000303	C-AL;100UF,20%,25V,GP,6.3*11,2.5MM,		11608-104-104
IC9,18,QC506,556 RC713,IC15	2401-000419	C-AL;10UF,20%,16V,GP,5X11,2.5MM,		
RC712	2401-000438	C-AL;10UF,20%,25V,GP,5*11,2MM,		11608-104-103
RC706	2401-000778	C-AL;220UF,20%,10V,GP,6.3X11,2.5MM,		11608-102-224
JC313,PC3	2401-000795	C-AL;220UF,20%,16V,GP,8X11.5,3.5MM,		
UC903,RC709	2401-000830	C-AL;220UF,20%,25V,GP,8*11.5,3.5MM,		11608-104-221
IC12,KC402,452,406,456 JC310,360,QC508,558,505,555	2401-001022	C-AL;3.3UF,20%,50V,GP,5*11,2MM,		11608-106-332
RC701	2401-001052	C-AL;3300UF,20%,25V,GP,16*31.5,7.5M		11609-154-332
UC901	2401-001102	C-AL;330UF,20%,16V,GP,8X11,-,		
JC311	2401-001364	C-AL;470UF,20%,16V,GP,10X12MM,5MM,T		11608-103-471
RC711	2401-001552	C-AL;47UF,20%,35V,GP,6.3*11,2.5MM,		11608-105-470
IC17,29,QC518,568,522 QC523,RC705,704,710,UC904 IC34,RC706,UC905,AC604,654	2401-001895	C-AL;100UF,20%,16V,GP,6.3X11MM,2.5M		
IC11,13,27,26,5,OC12 QC501,551,502,552,503,553 QC504,554,521,571 PC1L,1R,2L,2R,AC603,653 QC520,570,RC708,PC1,CC805 KC410	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK		

Loc No.	New Part No.	Description	Specification	Old Part No.
AC609	2401-001925	C-AL;2200UF,20%,25V,GP,16X25MM,7.5M		11607-104-222
CC802,803,804	2401-001938	C-AL;22UF,20%,25V,GP,5X11MM,2MM,BK		
QC509,559	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,2MM,BK		
JC303,353,KC403,453 CC806,KC431	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,2MM,BK		
OTC1,2	2502-000127	C-CERAMIC TRIMMER;20-4.6PF,+50-0%,1		11829-512-030
AL602,652,603,JW64	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		12429-411-100
IL1	2701-000116	INDUCTOR-AXIAL;10UH,10%,4.2X9.8MM		12429-508-100
ICF4	2802-000215	RESONATOR-CERAMIC;19KHZ,+-38HZ,-,7.		14539-504-100
ICF1,3	2903-000105	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ		14529-301-753
ICF5	2903-000148	FILTER-CERAMIC;BP,450KHZ+-1KHZ		A1243-0049
CCON801	3711-000588	CONNECTOR-HEADER;BOX,10P,1R,2.5MM,S		13349-103-103
FCON1	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM,ST		13349-512-561
JCON301,TCON1	3711-000903	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,ST		13349-527-502
PCON1	3711-001011	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,ST		13349-103-053
SCON1	3711-003080	CONNECTOR-HEADER;NOWALL,28P,1R,1.25		
JCON302	3711-003110	CONNECTOR-HEADER;BOX,4P,1R,2.5MM,ST		
FJ1	3716-000201	TERMINAL-BLOCK;NON SOLDER,4P,4MM,-,		A3059-0006
AJ1	3716-000209	TERMINAL-BLOCK;,-,-,60V,7A		13303-500-620
AJ2	3722-000143	JACK-PHONE;1P,3.4MM,MBAG,BLACK,-		13339-101-590
IR6	61048-177-333	R-CARBON;RD 1/8 T 333-J		
IIC1	AH14-10002D	IC;LA1851N,-,		
IT1	AH26-10001C	TRANS-IF;KS940228-10,FM,-,7.6X12.0,		12619-020-067
IT2	AH26-10001E	TRANS-IF;KS940228-09,-,-,7.6X12.0,-		12619-030-005
OT1	AH26-10001K	TRANS-IF;KS940228-02,-,110UH,7.6X12		12619-047-203
KT431	AH26-10002G	TRANS-IF;IODT-N5002,BIAS-OSC,3.7MH,		12619-573-071
KLF401,451	AH26-10002Y	COIL-TRAP;FB875-85A,BIAS-TRAP,35DB,		12429-306-113
OL1	AH26-10003A	COIL-TRAP;KS940228-13,MW-ANT,250UH,		12619-561-000
RCW1	AH39-20008Y	LEAD-CONNECTOR ASS'Y;5264,5395,3P,2		13078-473-125
UCW901	AH39-20022G	LEAD-CONNECTOR ASS'Y;51004,5295,8P,		16439-0204-00
FEP1	AH40-10001U	TUNER;FE337-A05,-,75OHM		B1290-0002
	AH62-30061A	HEAT SINK-S;AL,WHT,-,-,H40,AV330R,-		15684-507-510
	AH62-30107A	HEAT SINK;-,AL,-,T6.0,-,WHT,-,SCM-6		

AH90-10636A ASSY-PCB FRONT;SCM6700,EXP
AH90-30476A ASSY-COM PCB FRONT;SCM6700,EXP

UD4,7,9,11,12	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
UQ2	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,-60V,-50		12149-101-520
UQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,60V,50V,		12149-301-900
LED1,2,3	0601-000141	LED;ROUND,GRN,3.1MM,555NM		A4150-0290
UIC2	1003-001029	IC-LCD DRIVER;LC75823E,QFP,64P,17.2		
UD10	12169-201-080	DIODE-RECTIFIER;1N 4001,TAPE		
UR49	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3		11018-877-391
UR12	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-683
UR50,51,52,55	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
UR24,11,30,17,43,47	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
UR25,31,18	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-123
UR33,34,35,38,39,40	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.		11018-877-102
UR44,57,58,59,60	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
UR45	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3		11018-877-221
UR19,32	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-223
UR36,37	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-393

Loc No.	New Code No.	Description	Specification	Old Code No.
UR20,21,13,14,6,7	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-472
UR26,27,56,54,53				
UR1,2,3,4,5,48	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-473
UR46	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-470
UR8,15,22,28	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X		11018-877-682
UR9,16,23,29	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-822
UC13,14	2201-000273	C-CERAMIC,DISC;18PF,5%,50V,NPO,5.0*		11407-057-180
PC1,2	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC		11469-501-070
UC7,4,18	2201-000565	C-CERAMIC,DISC;47NF,20%,50V,Y5V,12.		11417-344-473
UC1,2,5,10	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P		11449-518-102
UC3,6,8,11,12,17,19	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5		
UC16	2401-000419	C-AL;10UF,20%,16V,GP,5X11,2.5MM,		
UC9	2401-001465	C-AL;47UF,20%,10V,GP,5*11,2MM,		11608-102-473
UC15	2409-000123	C-EDL;47000UF,4UA,5.5V,-,-,5MM,BK		B1104-0540
UX1	2801-001398	CRYSTAL-UNIT;4.5MHZ,50PPM,28-AAM,12		14539-003-010
FU1,2	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM		13164-101-913
FCW5	3708-000451	CONNECTOR-FPC/FC/PIC;16P,1.25MM,STR		B6010-1549
FCW2	3710-001036	CONNECTOR-SOCKET;28P,1R,1.25MM,STRA		
PCW1	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM		13349-156-020
PCW2	3711-000898	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,AN		13349-102-030
FCW4	3711-001011	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,ST		13349-103-053
FCW5	3809-000200	CABLE-FLAT;30V,80C,300MM,16P,1.25MM		B6032-0070
LAMP1,2,3,4	4713-000158	LAMP-NEON;9V,75MA,0.7W,TRP,3X5.3MM,		B4158-0043
LCD1	AH07-10035C	LCD-PANNEL;-,LE-0727AP,SCM6700,-		
UIC1	AH09-10060Y	IC-MCU;LC72362N-9257,80P,QFP,-		
PL1,2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.		12429-010-330
FCW3	AH39-20548A	LEAD CONNECTOR-ASSY;-,5264,51088,5P		
FCW1	AH39-30010A	CABLE-IF;-,5264/51088-02,300MM,1365		
EYE1	AH59-60001G	MODULE-REMOCON;RC-38S2L,38KHZ,-,-,-		A1294-0041
LCD1	AH61-20335A	HOLDER-CD;ABS,94HB,WHT,T1.5,SCM6700		13323-0263-00
	AH67-40024A	FILTER-LCD;PC,T0.5,-,-,-,-,WHT,SCM6		10874-0014-00
LAMP1,2,3,4	AH73-10007A	RUBBER-CAP;SILICON,-,RCD-1650,GRN		

AH90-40355A ASSY-OPT PCB FRONT;SCM6700TCE,SEA

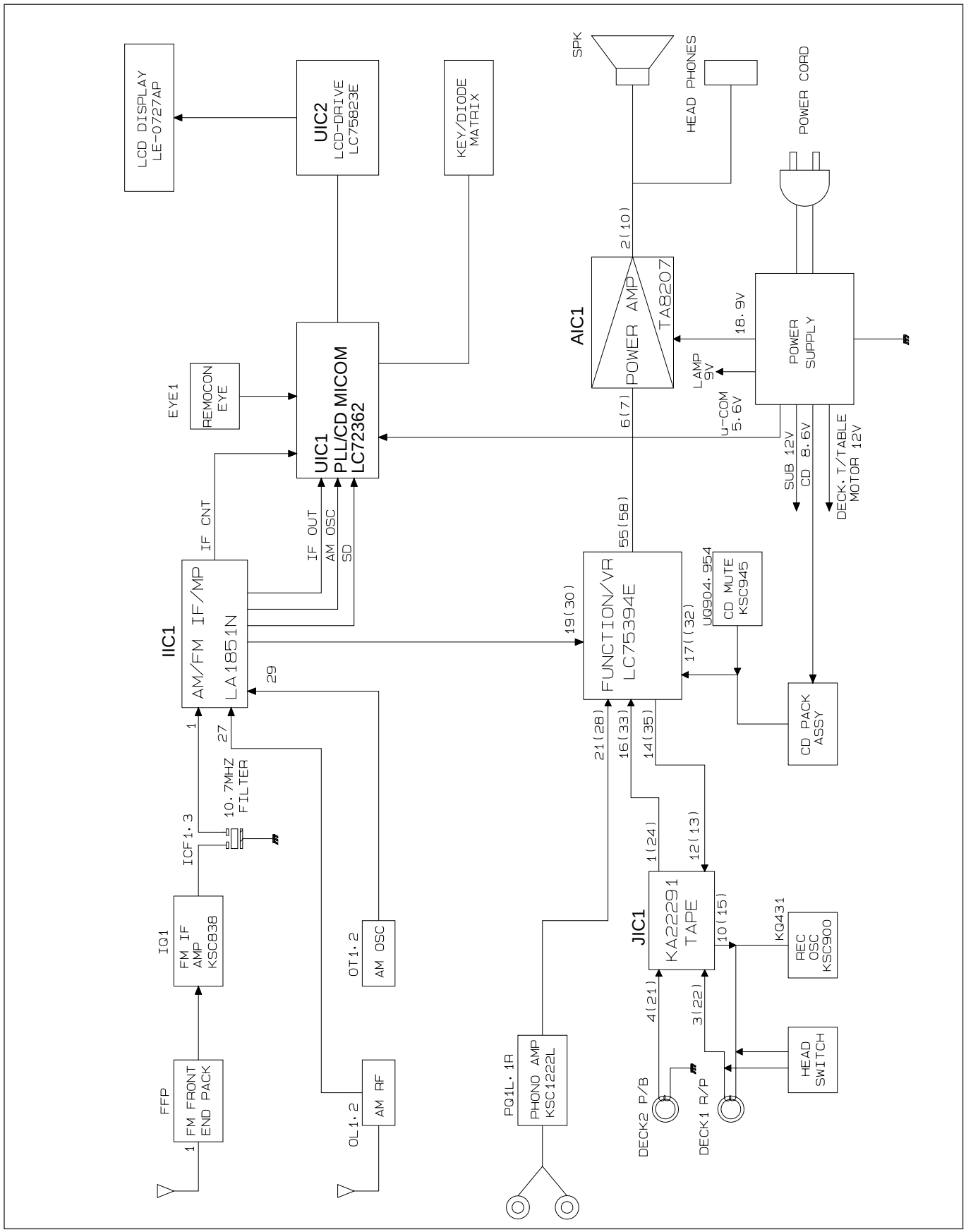
2001-001095	R-CARBON(S);2.2MOHM,5%,1/2W,AA,TP,2		11018-377-225
6202-000111	TUBE-VINYL;-,ID5.2,T0.43,-,CLR,PVC,		10659-413-041
AH26-80140H	TRANS-POWER;EI60X30,115/230V,60/50H		
AH39-10001S	POWER-CORD;EP2,SPT#2/18,2M,SOLDERIN		13059-808-301
AH61-40022A	STUD-TAP;SPC1,T0.5,BT2,-,-,		13124-100-710

Loc No.	New Part No.	Description	Specification	Old Part No.
G3A8-1/C ASSY-CD PACK;1-CD G3A8 CKD				
AH90-10346D ASSY-PCB,CD;G3A8,				19129-0357-03
	0202-000152	SOLDER-WIRE FLUX;SV92-8SA,S92,,92SN		10849-740-121
	0202-000155	SOLDER-WIRE FLUX;KR19-RMA S60A,S60A		A0074-0003
	0204-000203	CH-ISOPROPHYL ALCOHO;,C2H50H,99%		10849-405-021
ND200,201,202,203	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
NZD101	0403-000358	DIODE-ZENER;UZ5.6BSB,5.6V,5.46-5.7V		12169-404-790
NQ1502	0501-000323	TR-SMALL SIGNAL;KSB564Y,PNP,-30V,-2		12149-202-050
NQ1501	0501-000610	TR-SMALL SIGNAL;KSA928A,PNP,-30V,-3		
NIC9282	0904-000157	IC-DSP;9282,-,QFP,80P,-,16.9344MHZ,		A4012-0291
NIC9258	1003-000179	IC-MOTOR DRIVER;KA9258D,SOP,28P,-,S		
NIC1641	1003-000298	IC-MOTOR DRIVER;LB1641,SIP,10P,-,-,		
NIC9270	1204-000110	IC-AUDIO FILTER;KA9270,SOP,20P,-,PL		A4012-0089
NIC9220	1204-000230	IC-SSP;KA9220C,QFP,80P,-,PLASTIC,6V		A4012-0290
NR605	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012		11119-101-683
NR606,611,608,609,610	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
NR47L,47R,104,203,NRD	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
NR106,107	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012		11119-101-124
NR41L,41R,204,191,100	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012		11119-101-123
NR190				
NR103,119	2007-000395	R-CHIP;150KOHM,5%,1/10W,DA,TP,2012		11119-101-154
NR110	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012		11119-101-153
NR115	2007-000444	R-CHIP;180KOHM,5%,1/10W,DA,TP,2012		11119-101-184
NR102,109,205,45L,45R	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
NR42L,42R,114	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012		11119-101-105
NR40L,40R	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012		11119-101-223
NR101	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012		11119-101-220
NR43L,43R,200	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012		11119-101-273
NR201,202	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012		11119-101-332
NR105	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012		11119-101-393
NR44L,44R,46L,46R	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		11119-101-472
NR117	2007-000898	R-CHIP;430KOHM,5%,1/10W,DA,TP,2012		11119-101-434
NR111,108	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		11119-101-473
NR112	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012		11119-101-563
NR113	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012		11119-101-822
NR116	2007-001195	R-CHIP;820KOHM,5%,1/10W,DA,TP,2012		11119-101-824
NR118	2007-001213	R-CHIP;82OHM,1%,1/10W,DA,TP,2012		11119-102-820
NR555	2008-000141	R-FUSIBLE;2.2OHM,5%,1/4W,AA,TP,2.6X		11058-277-229
NVR1701	2103-000007	VR-SEMI;50KOHM,30%,1/10W,SIDE		11249-102-063
NVR1702,1703,1704	2103-000291	VR-SEMI;20KOHM,30%,1/10W,SIDE		11249-102-043
NC119,120,121,107,108	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5		
NC603				
NC205,110,116,102,103	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201		11129-004-103
43R,44L,500,600,601,602				
NC700,701				
NC1000,1001	2203-000361	C-CERAMIC,CHIP;150PF,5%,50V,NPO,201		
NC112	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20		11129-004-222
NC118	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201		
NC113,125,101	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201		11129-001-333
NC100	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20		
NC204,124	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5		11128-018-474
NC200	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201		
NC2000	2203-001026	C-CERAMIC,CHIP;4PF,0.25PF,50V,SL,20		

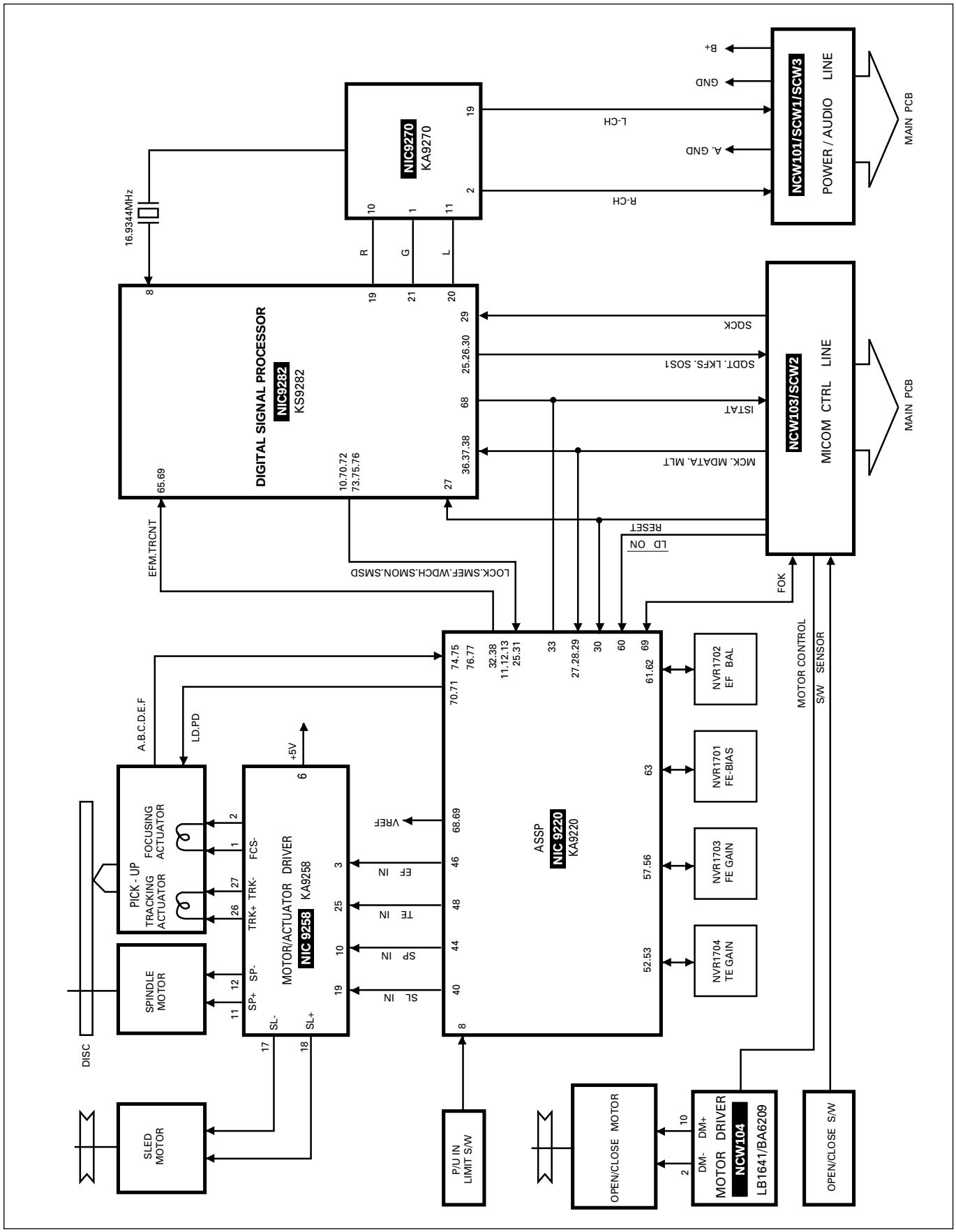
Loc No.	New Part No.	Description	Specification	Old Part No.
NC45R,46L	2203-001058	C-CERAMIC,CHIP;560PF,5%,50V,NPO,201		11129-019-561
NC111	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20		11129-004-682
NC115	2203-001137	C-CERAMIC,CHIP;68NF,+80-20%,50V,Y5V		11129-004-683
NC190	2203-001256	C-CERAMIC,CHIP;8PF,0.25PF,50V,NPO,2		
NC109,104,42R,43L	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012		
NC41L,41R	2203-001550	C-CERAMIC,CHIP;1.2NF,10%,50V,X7R,20		
NC201	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20		
NC202,203	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,2012		
NC702,105	2401-000243	C-AL;100UF,20%,10V,GP,6.3*5,2.5MM,T		11608-152-101
NC114	2401-000419	C-AL;10UF,20%,16V,GP,5X11,2.5MM,		
NC703	2401-000778	C-AL;220UF,20%,10V,GP,6.3X11,2.5MM,		11608-102-224
NC700,701	2401-000868	C-AL;220UF,20%,4V,GP,6.3*5,2.5MM,TP		11608-171-221
NC45L,44R,40L,40R,122	2401-001238	C-AL;4.7UF,20%,25V,GP,3*5,1MM,TP		11608-154-479
NC42L	2401-001502	C-AL;47UF,20%,16V,GP,6.3*5,2.5MM,TP		11608-153-470
NC117	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,2MM,BK		
NL100	2703-000002	INDUCTOR-SMD;100UH,10%,2.5X3.2X2MM		11176-600-040
NXF100	2802-000211	RESONATOR-CERAMIC;16.93MHZ,0.5%,TP,		14539-503-083
NS100	3409-000174	SWITCH-LEAF;16VDC,500MA,10GF,SPST		13564-601-100
NCW100	3708-000177	CONNECTOR-FPC/FC/PIC;16P,1.0MM,ANGL		A6010-1523
NCW103	3708-000413	CONNECTOR-FPC/FC/PIC;16P,1.25MM,ANG		A6010-1525
NCW104	3711-001061	CONNECTOR-HEADER;BOX,6P,1R,2MM,ANGL		13349-139-061
NCW101	3711-001136	CONNECTOR-HEADER;BOX,8P,1R,2MM,ANGL		13349-139-080
	3809-000202	CABLE-FLAT;30V,80C,82MM,16P,1MM,UL2		A6032-0066
	3811-000130	WIRE-PVC CU;BCWA,300V,60MM,7/0.16MM		13049-011-106
	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,		
	A0074-0004	SOLDER-BAR;DONG YANG S63A 30X400		
NIC05	AC14-12001G	IC;KA78L05,T,-		
	AH62-30047A	HEAT SINK;ETHD,-,T0.5,-,-,-,MAX-555		11124-0061-00
	AH63-40017A	SHIELD-PLATE;SPTE,T0.3,-,MM-77,-,		12074-0024-00

9. Block Diagrams

9-1 Main



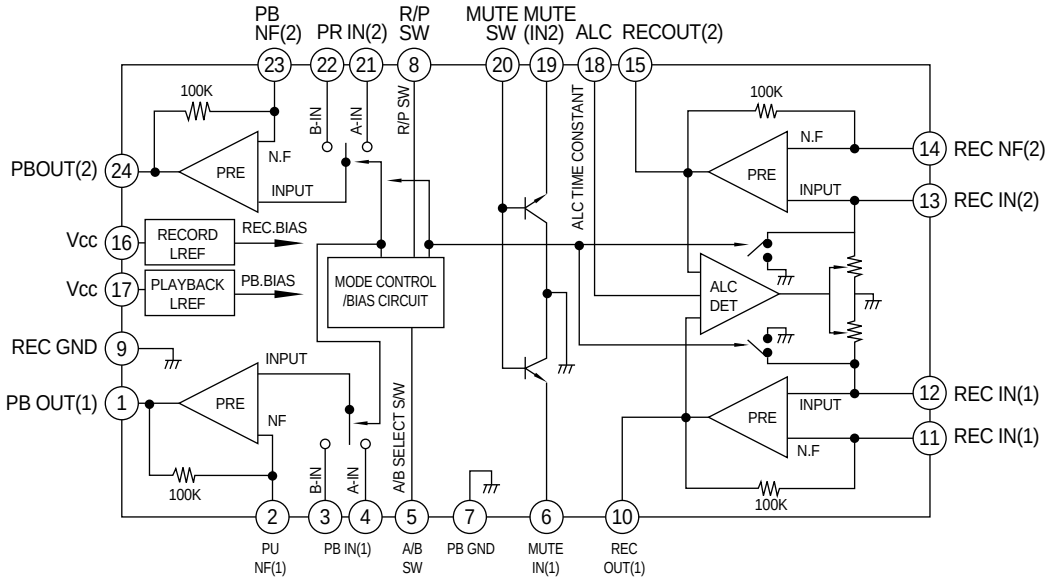
9-2 CD


B+
GND
A. GND
L-CH
R-CH
NCW101/SCW1/SCW3
POWER / AUDIO LINE
MAIN PCB
NIC9270
KA9270
16.9344MHz
R
G
L
DIGITAL SIGNAL PROCESSOR
NIC9282
KS9282
SOCK
SODT. LKFS. SOS1
ISTAT
MCK. MDATA. MLT
NCW103/SCW2
MICOM CTRL LINE
MAIN PCB
EFM.TRCNT
LOCK.SMEF.WDCH.SMON.SMSD
RESET
LD ON
FOK
MOTOR CONTROL
S/W SENSOR
A.B.C.D.E.F
LD.PD
+5V
VREF
ASSP
NIC 9220
KA9220
NVR1702
EF BAL
NVR1701
FE-BIAS
NVR1703
FE GAIN
NVR1704
TE GAIN
PICK - UP
TRACKING ACTUATOR
FOCUSING ACTUATOR
SPINDLE MOTOR
MOTOR/ACTUATOR DRIVER
NIC 9258
KA9258
SP+
SP-
TRK+
TRK-
FCS-
SL-
SL+
EF IN
TE IN
SP IN
SL IN
DISC
SLED MOTOR
P/U IN
LIMIT S/W
OPEN/CLOSE MOTOR
MOTOR DRIVER
NCW104
LB1641/BA6209
DM+
DM-
OPEN/CLOSE S/W

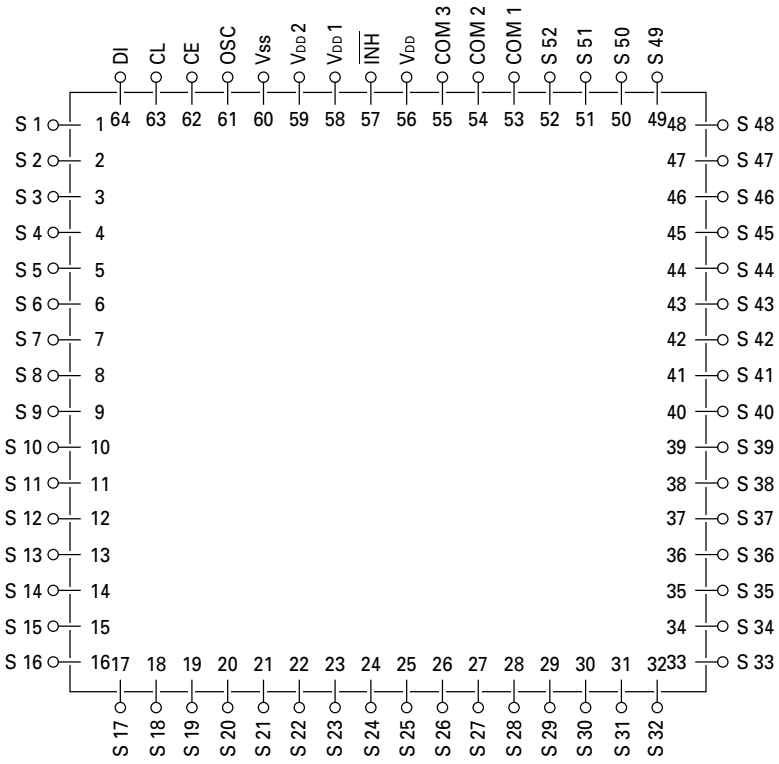
9-3 IC & TR Internal Diagrams

9-3-1 Main

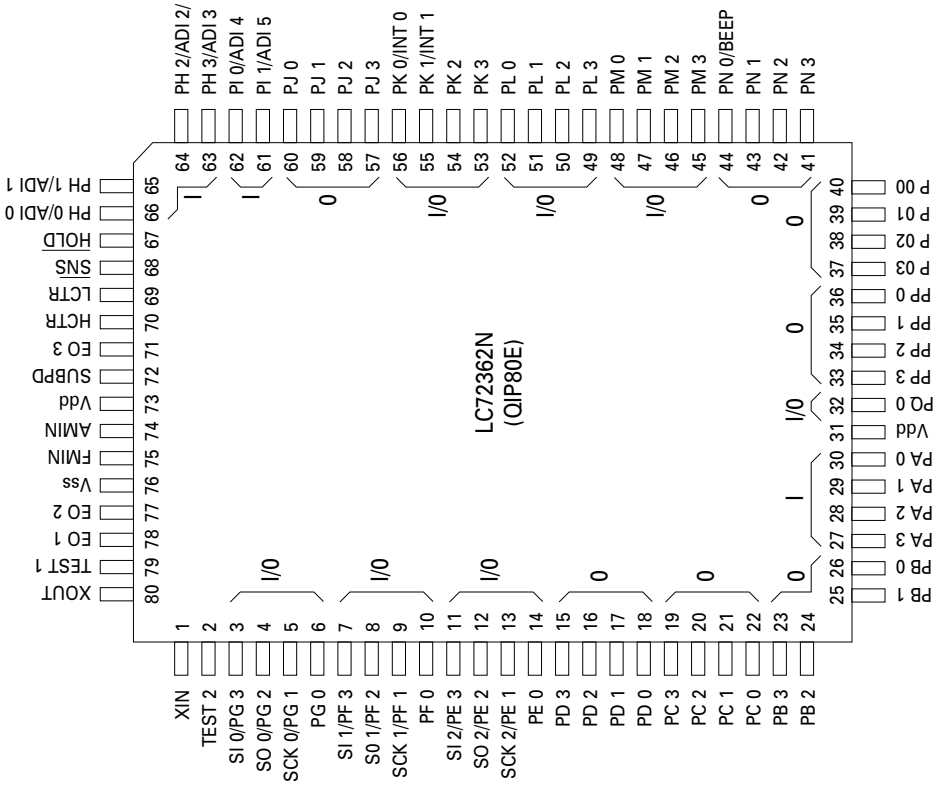
KA22291 : JIC1



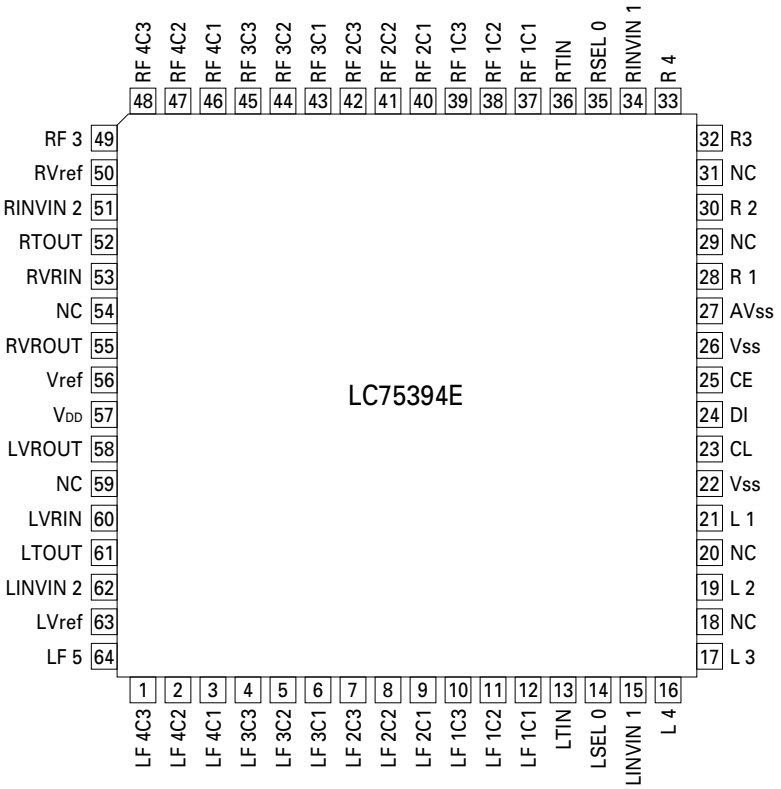
LC75823E : UIC2

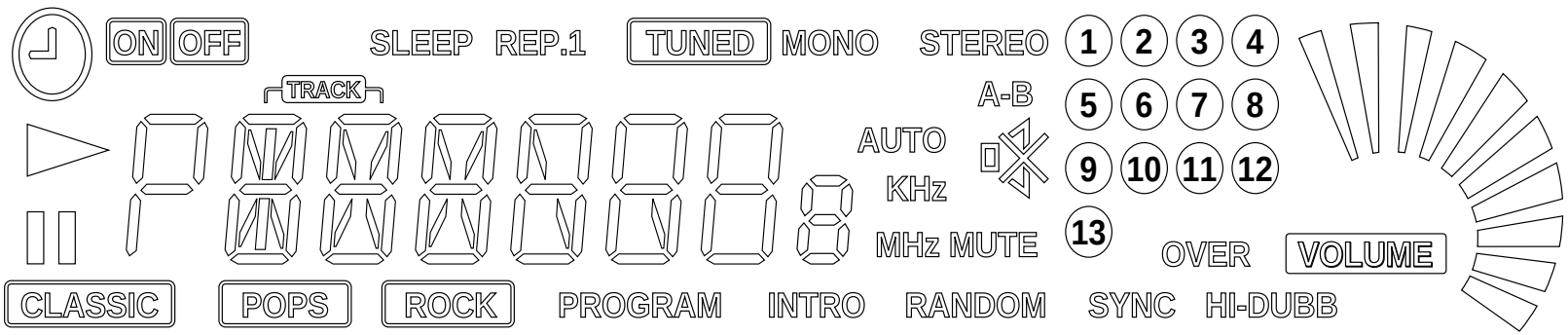


LC72362N : UIC1



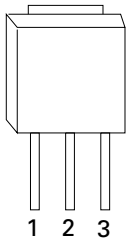
LC75394E : QIC1





	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
COM 1	com1	/	/		CLASSIC	TRACK	1f	1h	1a	2f	2h	2a	3f	3h	3a	SLEEP	4f	ROCK	4a	5f	5j
COM 2	/	/	com2	ON			1i	1g	1b	2e	2g	2b	3e	3g	3b	1	4e	4g	4b	5e	5g
COM 3	/	com3	/	OFF			1e	1d	1c	POPS	2d	2c	2j	3d	3c	REP	3j	4d	4c	4hj	5d
	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
COM 1	5a	MONO	6f	P	6a	7f	INTRO	7a	/	AUTO	MUTE	②	①	⑧	⑪	SYNC	S1	VOLUME	S6	S9	
COM 2	5b	/	6e	6g	6b	7e	7g	7b	STEREO	KHz	RANDOM	③	⑥	⑨	⑬	HI-DUBB	S2	S4	S7	S10	
COM 2	5c	TUNED	COL	6d	6c	PROGRAM	7d	7c	/	MHz	⑤	④	⑦	⑩	⑫	OVER	S3	S5	S8	A-B	

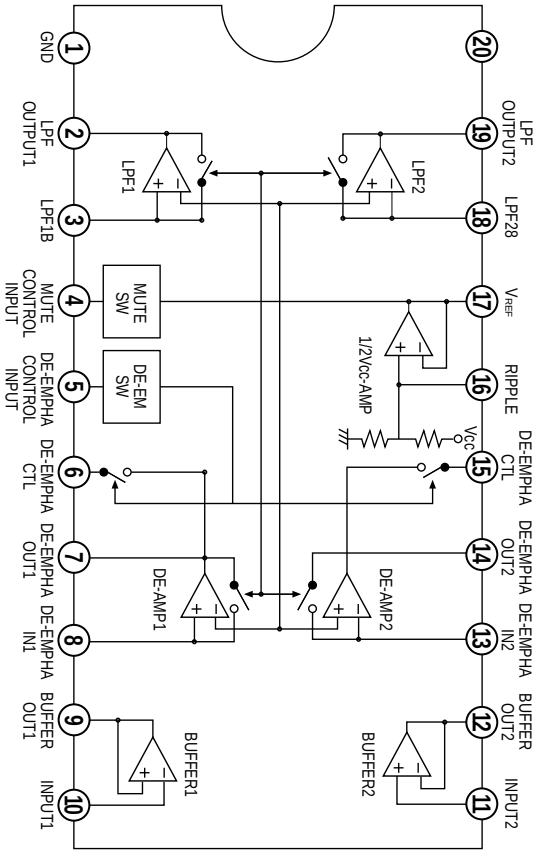
9-3-2 CD



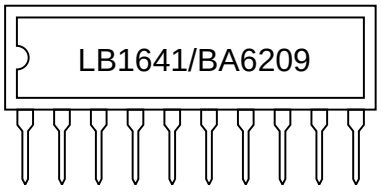
TR	1	2	3
KSR1003 A928	E	C	B

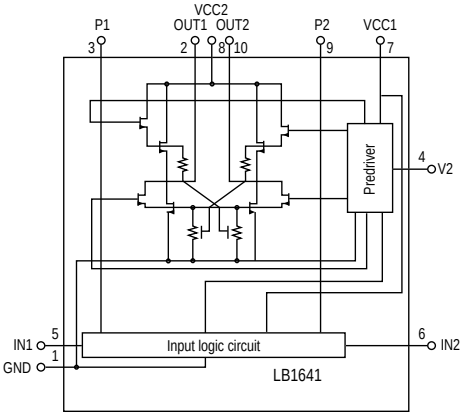
* NOTE : KSB564 ='EBC' TYPE

KA9270 : NIC9270

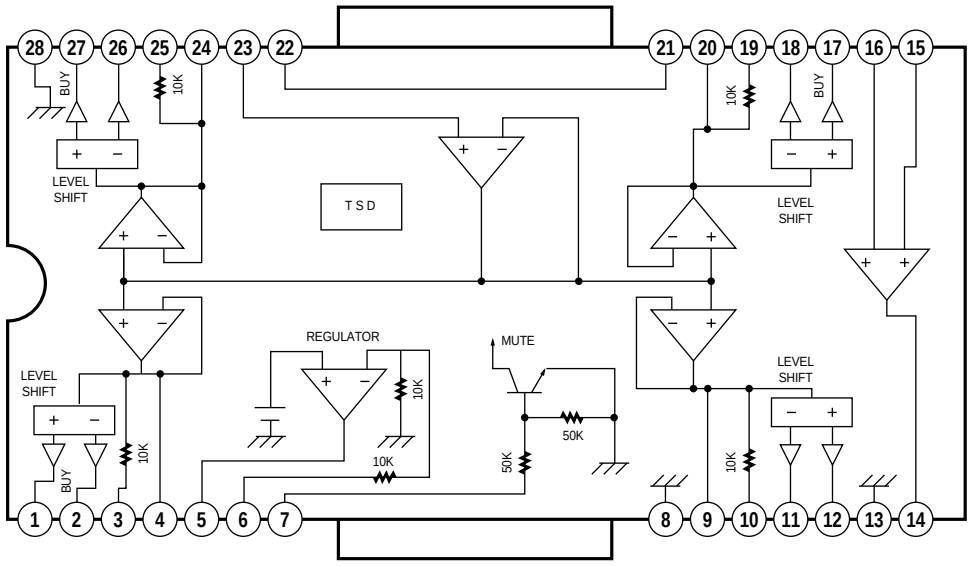


LB1641/BA6209(MOTOR DRIVER) : NIC1641

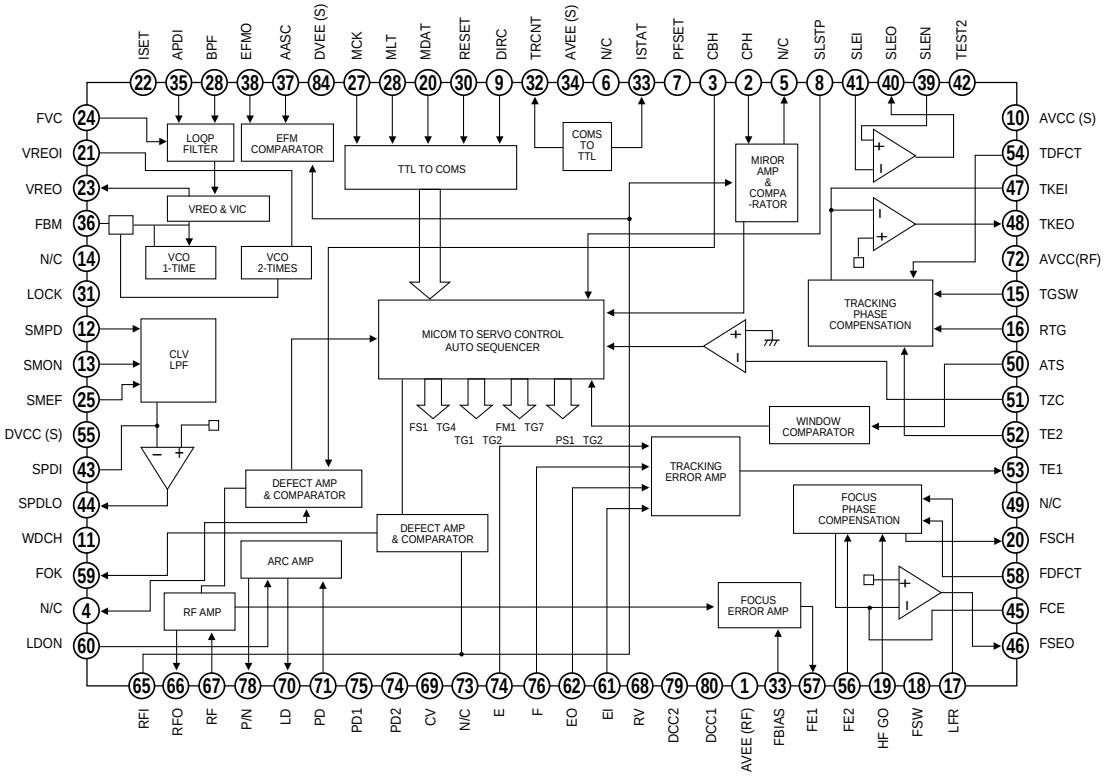




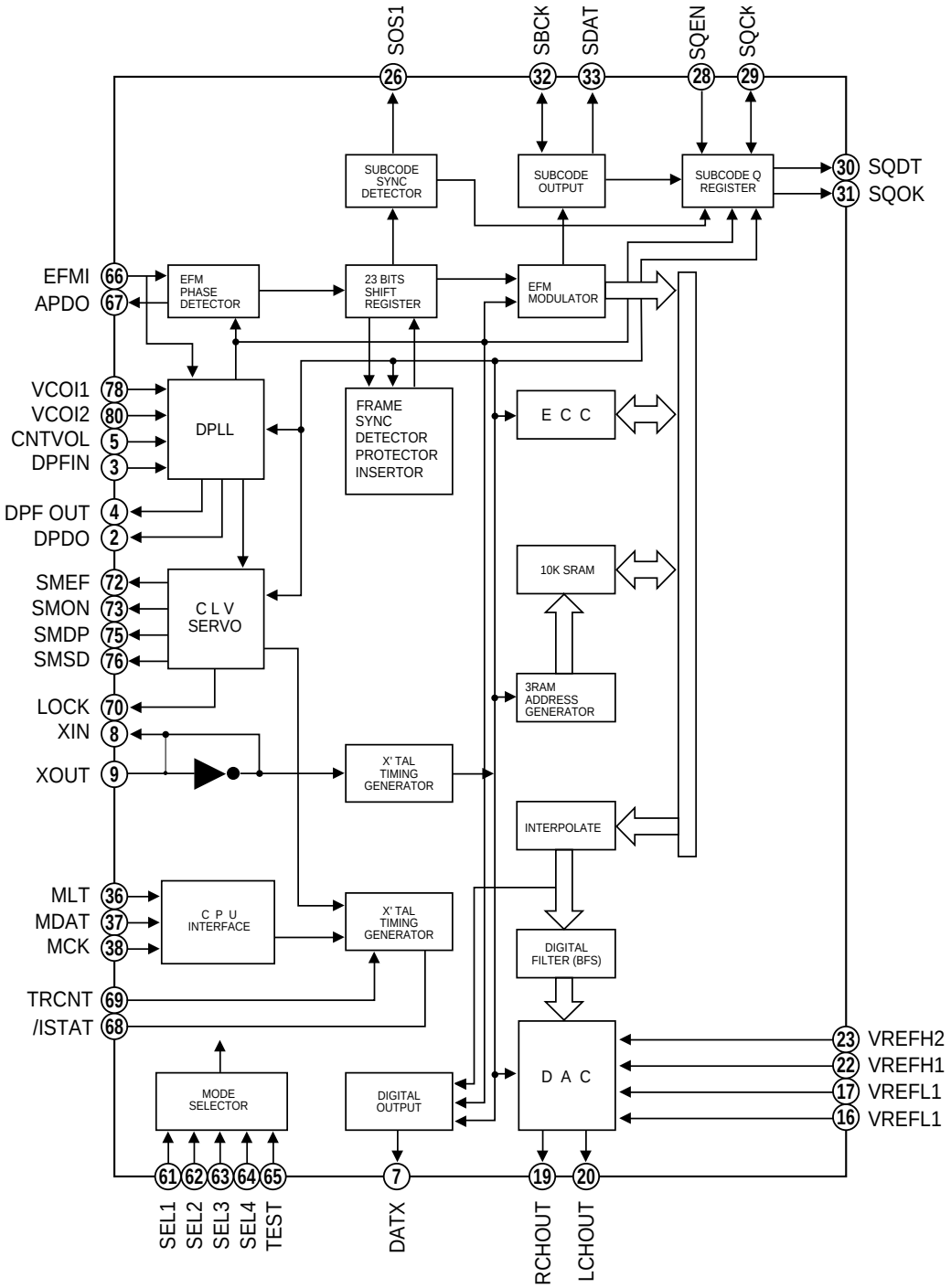
KA9258 : NIC9258



KA9220(ASSP) : NIC9220



KS9282(DSP) : NIC9282



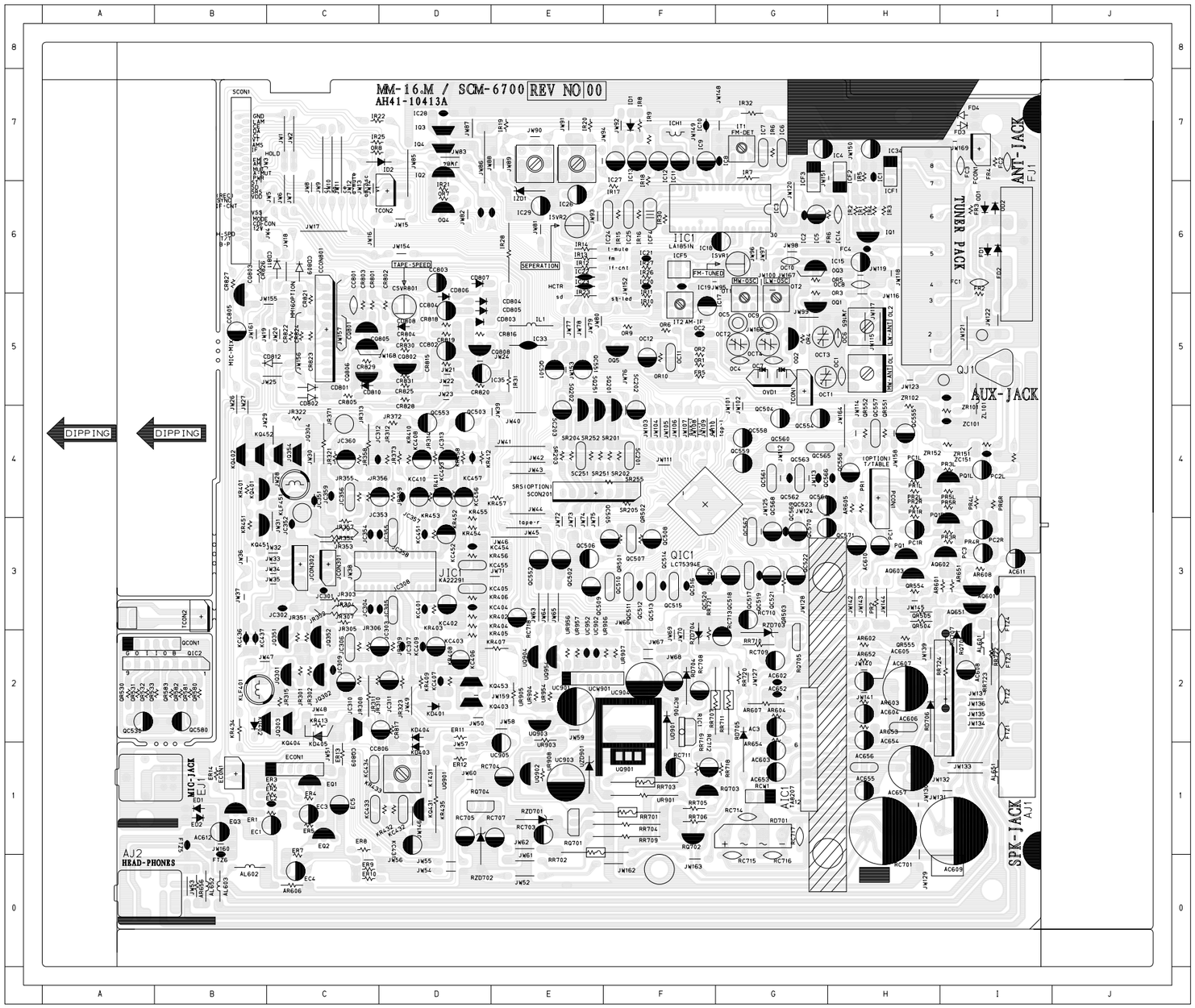
9-4 µ-COM (LC72362N-9265) : UIC1

Pin No.	Name	I/O	Functions	Descriptions
1	Xin	I	OSC 4.5MHz	OSC for SYSTEM CLOCK
2	TEST2	I	-	
3	PG3SI/O	I	CLOSE SW	DOOR CLOSE SENSE PORT
4	PG2/SO0	I	LCD CONTROL DATA	LCD CONTROL SIGNAL
5	PG1/SCK	I	LCD CONTROL CLK	LCD CONTROL SIGNAL
6	PG0	I	LCD CONTROL CE	LCD CONTROL SIGNAL
7	PF3/SI1	I	OPEN SW	DOOR OPEN SENSE PORT
8	PF2/SO1	I	VOLUME CONTROL DATA	VOLUME CONTROL SIGNAL
9	PF1/SCK1	I	VOLUME CONTROL CLK	VOLUME CONTROL SIGNAL
10	PFO	I	VOLUME CONTROL CE	VOLUME CONTROL SIGNAL
11	PE3/S12	O	SENSE	SERVO FUNCTION SIGNAL
12	PE2/SO2	I	SQDT	SUBCODE “Q” CHANNEL DATA
13	PE1/SCK2	I	SQCK	CLOCK for “Q” DATA
14	PE0	O	F OK	FOCUS OF SIGNAL
15	PD3	O	MLT	LATCH for MIAN DATA
16	PD2	O	MDATA	MAIN DATA
17	PD1	O	MCK	MAIN CLOCK
18	PD0	O	CLOSE	DOOR CLOSE CONTROL PORT
19	PC3	O	OPEN	DOOR OPEN CONTROL PORT
20	PC2	O	MUTE	CD MUTE CONTROL PORT
21	PC1	O	RESET	IC(SSP IC) RESET PORT
22	PC0	O	LD ON	LASER DIODE ON SIGNAL
23	PB3	O	MOTOR CONTROL	
24	PB2	O	FM MODE	MODE KEY ON/OFF MODE : “H”,”L” CONVERSION
25	PB1	O	IF CNT	When SD SIGNAL is L MODE : ACTION
26	PB0	O	HIGH SPEED MOTOR CTL	HIGH SPEED
27	PA3	I	TAPE PLAY	
28	PA2	I	TAPE REC	CD SYNCHRO RECORDING CONTROL
29	PA1	I	LKFS	INDICATE FRAME SYNCHRONIZATION STATUS
30	PO0	I	SOSI	SUBCODE SYNCHRONIZATION SIGNAL
31	Vdd	-		
32	PQ0	I/O		
33	PP3	O		
34	PP2	O		
35	PP1	O		
36	PP0	O	FUNCTION LED(TUNER)	FUNCTION IND LED CONTROL PORT(TUNER)
37	PO3	O	FUNCTION LED(TAPE)	FUNCTION IND LED CONTROL PORT(CD)
38	PO2	O	FUNCTION LED(CD)	CD B+ CONTROL
39	PO1	O	CD CONTROL	FUNCTION IND LED CONTROL PORT(PHONO
40	PO0	O	FUNCTION LED(PHONO or AUX)	of AUX)

Pin No.	Name	I/O	Functions	Descriptions
41	PN3	O	POWER CONTROL	PORT for TUNER FUNCTION
42	PN2	O	AUDIO MUTE	MUTE for AUDIO
43	PN1	O	TUNER MUTE	MUTE for TUNER FUNCTION
44	PN0/BEEP	O		
45	PM3	I/O		
46	PM2	I/O		
47	PM1	I	OPTION INPUT	PORT for OPTION DATA
48	PM0	I	OPTION INPUT	PORT for OPTION DATA
49	PL3	I	OPTION INPUT	PORT for OPTION DATA
50	PL2	O	OPTION INPUT	PORT for OPTION DATA
51	PL1	O	OPTION INPUT	PORT for OPTION DATA
52	PL0	O	OPTION INPUT	PORT for OPTION DATA
53	PK3	I/O	TUNING IND (SD)	TUNING INDICATER ON/OFF
54	PK2	I/O	STEREO IND	STEREO INDICATER ON/OFF
55	PK1/INT1	I/O		
56	PK0/INT0	I	REMOCON	REMOCON SIGNAL INPUT
57	PJ3	O	SRS	
58	PJ2	O	SW	
59	PJ1	O	MW	
60	PJ0	O	FM	
61	PI1/ADI5	I		
62	PI0/ADI4	I	KEY DATA	A/D INPUT (8 KEY)
63	PH3/ADI3	I	KEY DATA	A/D INPUT (8 KEY)
64	PH2/ADI2	I	KEY DATA	A/D INPUT (8 KEY)
65	PH1/ADI1	I	KEY DATA	A/D INPUT (8 KEY)
66	PH0/ADI0	I	KEY DATA	A/D INPUT (8 KEY)
67	$\overline{\text{HOLD}}$	I	POWER OFF SENSE	
68	$\overline{\text{SNS}}$	I	VOLTAGE SENSE	
69	LCTR	I		
70	HCTR	I	FM AM IF INPUT	FM & AM IF FREQUENCY INPUT PORT
71	EO3	O		
72	SUBPD	O		
73	Vdd	-		
74	AMIN	I	AM INPUT	AM OSC INPUT
75	FMIN	I	FM INPUT	FM OSC INPUT
76	Vss	-		
77	EO1	O	TUNER VOLTAGE CONTROL	FM TUNING VOLTAGE
78	EO2	O	TUNER VOLTAGE CONTROL	AM TUNING VOLTAGE
79	TEST1	-	-	
80	Xout	O	OSC 4.5MHZ	OSC for SYSTEM CLOCK

10. PCB Diagrams

10-1 Main



XXX RESISTOR XXX

X (I4)	IR9 (F7)	QR505 (H3)	AC3 (G2)	JC355 (D3)	RC703 (E1)
AR601 (I3)	JR301 (C2)	QR530 (A2)	AC602 (G2)	JC356 (C4)	RC704 (E1)
AR602 (H2)	JR302 (C2)	QR531 (A2)	AC603 (G1)	JC357 (D4)	RC705 (D1)
AR603 (H2)	JR303 (C3)	QR532 (A2)	AC604 (H2)	JC358 (D3)	RC706 (F2)
AR604 (G2)	JR304 (C3)	QR533 (B2)	AC605 (H2)	JC359 (C4)	RC707 (E1)
AR605 (H3)	JR305 (C2)	QR551 (H4)	AC606 (H2)	KC401 (D3)	RC708 (F2)
AR606 (C0)	JR306 (C2)	QR552 (H4)	AC607 (H2)	KC404 (D3)	RC709 (G2)
AR607 (G2)	JR307 (C3)	QR554 (H3)	AC608 (I2)	KC405 (D3)	RC710 (G3)
AR608 (I3)	JR308 (C2)	QR555 (H2)	AC609 (I1)	KC407 (D2)	RC711 (F1)
AR651 (I3)	JR309 (D2)	QR580 (B2)	AC610 (H3)	KC409 (D2)	RC712 (F1)
AR652 (H2)	JR310 (C2)	QR581 (B2)	AC611 (I3)	KC410 (D4)	RC713 (G2)
AR653 (H2)	JR311 (C2)	QR582 (B2)	AC612 (B1)	KC431 (D1)	RC714 (G1)
AR654 (G2)	JR312 (D4)	QR583 (B2)	AC652 (G2)	KC432 (D1)	RC715 (G0)
AR656 (B0)	JR313 (C4)	RR701 (E1)	AC653 (G1)	KC433 (C1)	RC716 (G0)
CR801 (C5)	JR314 (D4)	RR702 (E1)	AC654 (H2)	KC434 (C1)	RC717 (G1)
CR802 (D5)	JR315 (C2)	RR703 (F1)	AC655 (H1)	KC436 (B2)	RC718 (E3)
CR803 (C5)	JR321 (C4)	RR704 (E1)	AC656 (H1)	KC437 (B2)	SC201 (F4)
CR804 (D5)	JR322 (C4)	RR705 (F1)	AC657 (H1)	KC451 (D3)	SC202 (F5)
CR805 (C5)	JR323 (D2)	RR706 (F1)	CC801 (C5)	KC454 (D3)	SC203 (E5)
CR815 (D5)	JR351 (C2)	RR707 (G2)	CC802 (D5)	KC455 (D3)	SC251 (E4)
CR816 (D5)	JR352 (C2)	RR709 (E1)	CC803 (D6)	KC457 (D4)	UC901 (E2)
CR817 (D2)	JR353 (C3)	RR710 (G2)	CC804 (D5)	OC1 (H5)	UC902 (E2)
CR818 (D5)	JR354 (C3)	RR711 (G2)	CC805 (B5)	OC10 (G6)	UC903 (E1)
CR819 (D5)	JR355 (C4)	RR718 (G1)	CC806 (D2)	OC11 (F5)	UC904 (F2)
CR820 (D5)	JR356 (C4)	RR719 (F1)	EC1 (B1)	OC12 (F5)	UC905 (E1)
CR821 (C5)	JR357 (C3)	RR720 (G2)	EC2 (B1)	OC2 (F5)	UC952 (E2)
CR822 (C5)	JR358 (C4)	RR721 (F2)	EC3 (C1)	OC4 (G5)	ZC101 (H4)
CR823 (C5)	JR359 (D4)	RR722 (I2)	EC4 (C0)	OC6 (H5)	ZC151 (I4)
CR824 (C5)	JR371 (C4)	RR723 (I2)	EC5 (C1)	OC7 (G5)	
CR825 (D5)	JR372 (D4)	SR201 (F4)	FC1 (I6)	OC8 (H6)	
CR826 (B6)	JR373 (D4)	SR202 (F4)	FC2 (I7)	PC1 (H3)	
CR827 (B5)	KD405 (C2)	SR203 (E4)	FC3 (I7)	PC1L (H4)	
CR828 (D5)	KR401 (B4)	SR204 (E4)	FC4 (H6)	PC1R (H3)	
CR829 (C5)	KR402 (D3)	SR205 (F4)	FTZ1 (I2)	PC2L (I4)	
CR830 (D5)	KR403 (D3)	SR251 (E4)	FTZ2 (I2)	PC2R (I3)	
CR831 (D5)	KR404 (D3)	SR252 (E4)	FTZ3 (I2)	PC3 (I3)	
ER1 (B1)	KR405 (D2)	SR255 (E4)	FTZ4 (I2)	QC501 (E5)	
ER10 (C0)	KR406 (D3)	UR901 (F1)	FTZ5 (B1)	QC502 (E3)	
ER11 (D2)	KR407 (D2)	UR903 (E2)	FTZ6 (B1)	QC503 (D4)	
ER12 (D1)	KR408 (D2)	UR904 (E2)	IC1 (H6)	QC504 (G4)	
ER13 (C1)	KR409 (D2)	UR905 (E2)	IC10 (F7)	QC505 (F3)	
ER14 (B1)	KR410 (D4)	UR906 (F2)	IC11 (F7)	QC506 (E3)	
ER2 (B1)	KR411 (D4)	UR907 (F2)	IC12 (F7)	QC507 (F3)	
ER3 (B1)	KR412 (D4)	UR908 (E1)	IC13 (F7)	QC508 (F3)	
ER4 (C1)	KR432 (D1)	UR954 (E2)	IC14 (H6)	QC509 (E3)	
ER5 (C1)	KR433 (D1)	UR956 (E2)	IC15 (H6)	QC510 (F3)	
ER7 (C0)	KR434 (B1)	UR957 (E2)	IC17 (F5)	QC511 (F3)	
ER8 (C1)	KR435 (D1)	ZR101 (H4)	IC18 (G6)	QC512 (F3)	
ER9 (C0)	KR451 (B3)	ZR102 (H4)	IC19 (F6)	QC513 (F3)	
FR2 (I5)	KR452 (D4)	ZR151 (I4)	IC2 (G6)	QC514 (F3)	
FR3 (I6)	KR453 (D3)	ZR152 (H4)	IC20 (F6)	QC515 (F3)	
FR4 (I7)	KR454 (D3)		IC21 (F6)	QC516 (F3)	
FR5 (F5)	KR455 (D3)		IC22 (E6)	QC517 (G3)	
FR6 (H6)	KR456 (D3)		IC23 (E6)	QC518 (G3)	
IR1 (H6)	KR457 (D4)		IC24 (F6)	QC519 (G3)	
IR10 (F5)	KR458 (D4)		IC25 (F6)	QC520 (F3)	
IR11 (F5)	OR1 (F5)		IC26 (E6)	QC521 (G3)	
IR12 (E6)	OR10 (F5)		IC27 (F7)	QC522 (G3)	
IR13 (E6)	OR2 (F5)		IC28 (D7)	QC523 (G4)	
IR14 (E6)	OR3 (G6)		IC29 (E6)	QC530 (A2)	
IR15 (F6)	OR4 (G5)		IC3 (G6)	QC551 (E5)	
IR16 (F6)	OR5 (G6)		IC33 (E5)	QC552 (E3)	
IR17 (E6)	OR6 (F5)		IC34 (H7)	QC553 (D4)	
IR18 (F6)	OR7 (D6)		IC35 (E5)	QC554 (G4)	
IR19 (E7)	OR8 (C7)		IC4 (G7)	QC555 (H4)	
IR2 (H6)	OR9 (F5)		IC5 (G6)	QC556 (H4)	
IR20 (E7)	PR1 (H3)		IC6 (G7)	QC557 (H4)	
IR21 (D6)	PR1L (H4)		IC7 (G7)	QC558 (G4)	
IR22 (C7)	PR1R (H4)		IC8 (G7)	QC559 (G4)	
IR23 (E5)	PR2 (H3)		IC9 (F7)	QC560 (G4)	
IR25 (C7)	PR2L (H4)		JC301 (C3)	QC561 (G4)	
IR26 (F6)	PR2R (H4)		JC302 (C3)	QC562 (G4)	
IR27 (F6)	PR3L (I4)		JC304 (C3)	QC563 (G4)	
IR28 (E6)	PR3R (I3)		JC305 (D3)	QC564 (G4)	
IR3 (H6)	PR4L (I4)		JC306 (C2)	QC565 (G4)	
IR30 (F6)	PR4R (H3)		JC307 (D2)	QC566 (H4)	
IR31 (E5)	PR5L (H4)		JC308 (D3)	QC567 (G3)	
IR32 (G7)	PR5R (H4)		JC309 (C2)	QC568 (G3)	
IR4 (H6)	PR6R (I4)		JC312 (C4)	QC569 (G3)	
IR5 (H6)	QR501 (F3)		JC313 (D4)	QC570 (G3)	
IR6 (G7)	QR502 (F3)		JC351 (C4)	QC571 (G3)	
IR7 (G7)	QR503 (G3)		JC352 (C4)	QC580 (B2)	
IR8 (F7)	QR504 (H3)		JC354 (C3)	RC701 (H1)	

XXX CONDENSER XXX

XXX DIODE XXX

CD801 (C5)
CD802 (C5)
CD803 (E5)
CD809 (C6)
CD811 (C6)
CD812 (B5)
FD3 (I7)
FD4 (I7)
ID1 (F7)
ID2 (D7)
IZD1 (E6)
RD704 (F2)
RD705 (G2)
RD706 (H2)
RD707 (I3)
RZD701 (E1)
RZD702 (D1)
RZD703 (G2)
RZD704 (F2)
UD901 (F2)
UZD901 (E1)

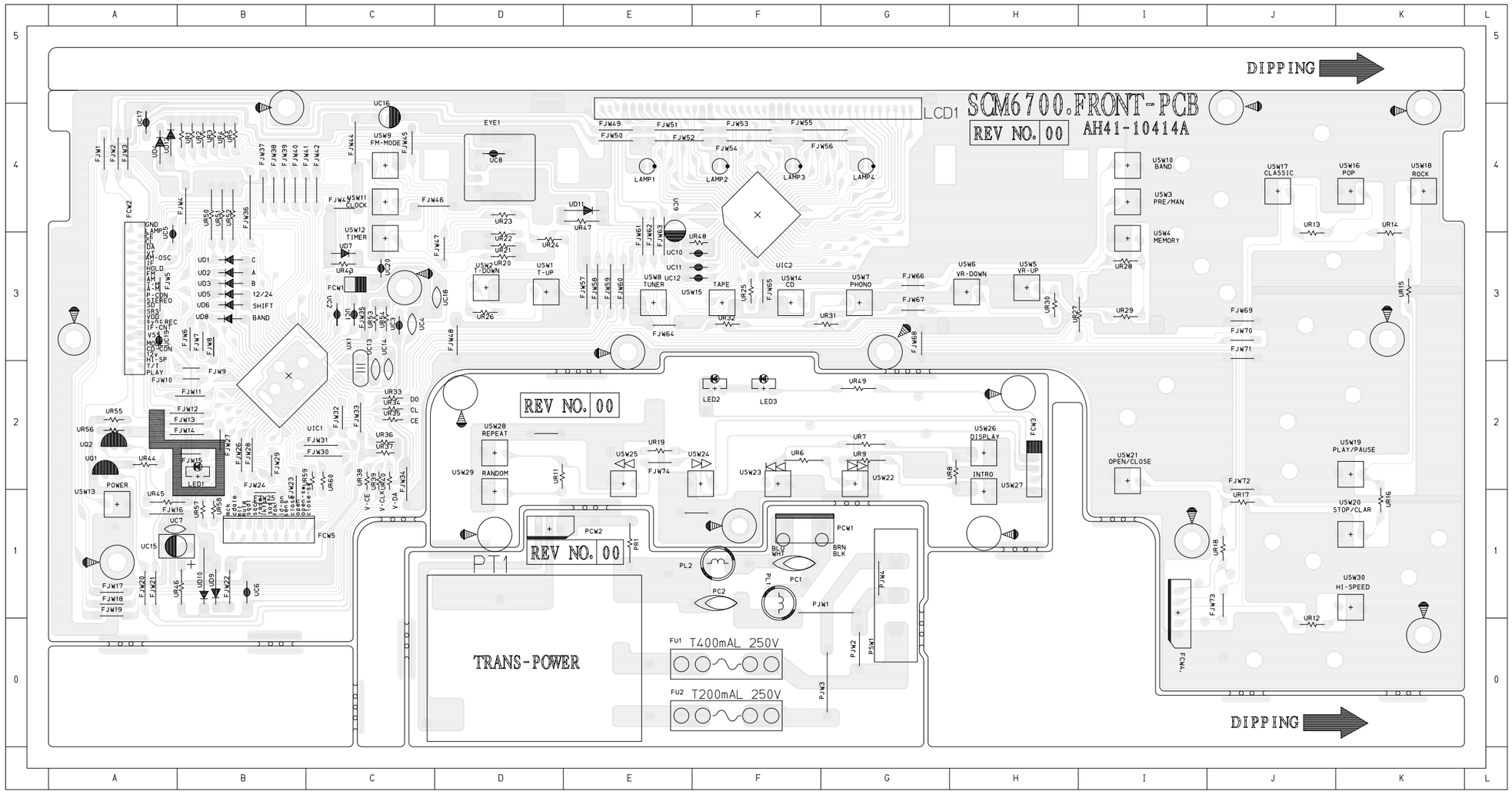
XXX IC&WAFER XXX

CCONB01 (C5)
ECON1 (B1)
ECON1 (C1)
FCON1 (I7)
ICF1 (H7)
ICF2 (H7)
ICF3 (G7)
ICF5 (F6)
JCON301 (C3)
JCON302 (C3)
PCON1 (H4)
QCON1 (A2)
RCW1 (G1)
SCON201 (E4)
TCON1 (G5)
TCON2 (B3)
TCON2 (D6)
UCW901 (E2)

XXX TR XXX

AQ601 (I3)	CQ803 (B5)	EQ2 (C1)	JQ301 (C2)	JQ354 (C4)	KQ451 (B4)	OQ4 (D6)	RQ703 (F1)	UQ902 (E1)
AQ602 (H3)	CQ805 (C5)	EQ3 (B1)	JQ302 (C2)	KQ401 (B4)	KQ452 (B4)	OQ5 (F5)	RQ705 (G2)	UQ903 (E2)
AQ603 (H3)	CQ806 (C5)	IQ1 (H6)	JQ303 (C2)	KQ402 (B4)	KQ453 (D2)	PQ1 (H3)	RQ706 (I2)	UQ904 (E2)
AQ651 (I3)	CQ808 (D5)	IQ2 (D7)	JQ304 (C4)	KQ403 (D2)	OQ1 (G5)	PQ1L (H4)	SQ201 (F5)	UQ954 (E2)
CQ801 (C5)	CQ809 (C2)	IQ3 (D7)	JQ351 (C2)	KQ404 (C2)	OQ2 (G5)	PQ1R (H3)	SQ202 (E5)	
CQ802 (D5)	EQ1 (C1)	IQ4 (D7)	JQ352 (C2)	KQ431 (D1)	OQ3 (G6)	RQ702 (F1)	SQ251 (E5)	

10-2 Front



*** RESISTOR ***

PR1 (E1)
UR1 (B4)
UR11 (D1)
UR12 (J0)
UR13 (J3)
UR14 (K3)
UR15 (K3)
UR16 (K1)
UR17 (J1)
UR18 (J1)
UR19 (E2)
UR2 (B4)
UR20 (D3)
UR21 (D3)
UR22 (D3)
UR23 (D4)
UR24 (D3)
UR25 (F3)
UR26 (D3)
UR27 (I3)
UR28 (I3)
UR29 (I3)
UR3 (B4)
UR30 (H3)
UR31 (F3)
UR32 (F3)
UR33 (C2)
UR34 (C2)
UR35 (C2)
UR36 (C2)
UR37 (C2)
UR38 (C1)
UR39 (C1)
UR4 (B4)
UR40 (C1)
UR43 (C3)
UR44 (A2)
UR45 (A1)
UR46 (B1)
UR47 (D4)
UR48 (E3)
UR49 (G2)
UR5 (B4)
UR50 (B3)
UR51 (B3)
UR52 (B3)
UR53 (C3)
UR54 (C3)
UR55 (A2)
UR56 (A2)
UR57 (B1)
UR58 (B1)
UR59 (C1)
UR6 (F2)
UR60 (C1)
UR7 (G2)
UR8 (H2)
UR9 (G2)

*** CONDENSER ***

UC1 (C3)
UC10 (E3)
UC11 (E3)
UC12 (E3)
UC13 (C2)
UC14 (C2)
UC15 (B1)
UC16 (C4)
UC17 (A4)
UC18 (D3)
UC19 (A3)
UC2 (C3)
UC20 (C3)
UC3 (C3)
UC4 (C3)
UC5 (A3)
UC6 (B1)
UC7 (A1)
UC8 (D4)
UC9 (E4)

*** DIODE ***

UD1 (B3)
UD10 (B1)
UD11 (E4)
UD12 (A4)
UD2 (B3)
UD3 (B3)
UD4 (A4)
UD5 (B3)
UD6 (B3)
UD7 (C3)
UD8 (B3)
UD9 (B1)

*** TR ***

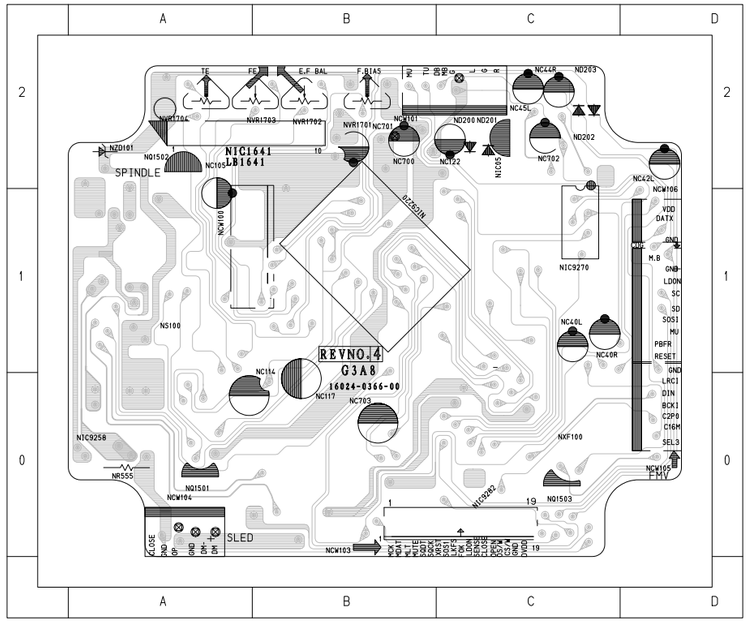
UQ1 (A2)
UQ2 (A2)

*** IC&WAFER ***

FCW1 (C3)
FCW3 (H2)
FCW4. (I1)
PCW2 (D1)
PSW1 (G1)
USW1 (D3)
USW10 (I4)
USW11 (C4)
USW12 (C3)
USW13 (A1)
USW14 (F3)
USW15 (F3)
USW16 (K4)
USW17 (J4)
USW18 (K4)
USW19 (K2)
USW2 (D3)
USW20 (K1)
USW21 (I2)
USW22 (G2)
USW23 (F2)
USW24 (F2)
USW25 (E2)
USW26 (H2)
USW27 (H1)
USW28 (D2)
USW29 (D1)
USW3 (I4)
USW30 (K1)
USW4 (I3)
USW5 (H3)
USW6 (H3)
USW7 (G3)
USW8 (E3)
USW9 (C4)

10-3 CD

10-3-1 Top View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

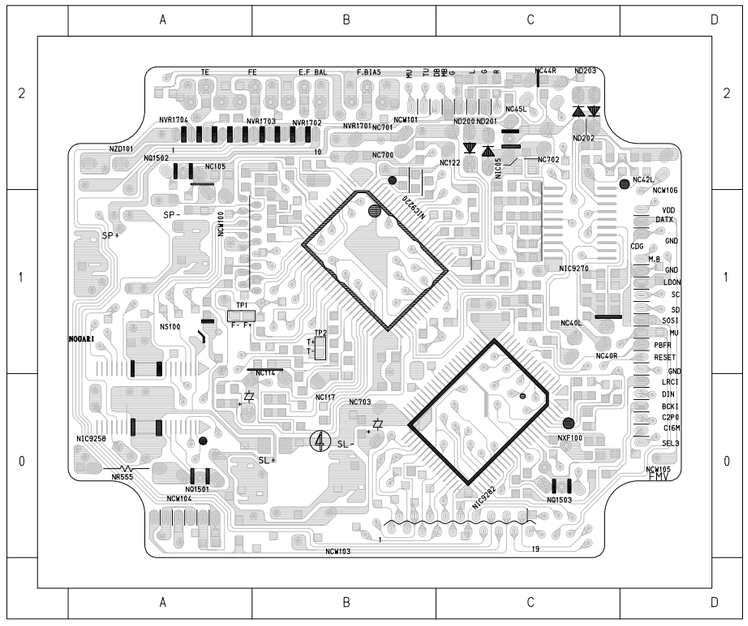
*** IC&WAFER ***

NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

*** CHIP ***

103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

10-3-2 Bottom View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

*** IC&WAFER ***

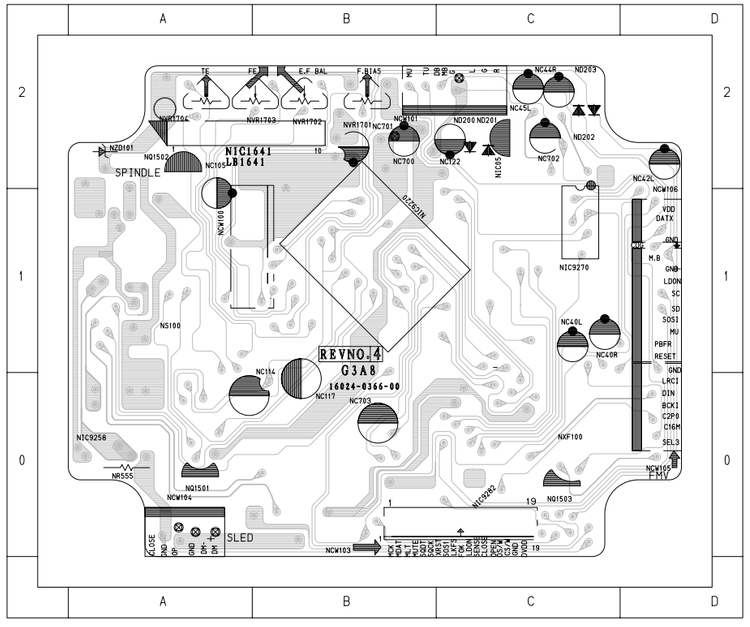
NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

*** CHIP ***

103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

10-3 CD

10-3-1 Top View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

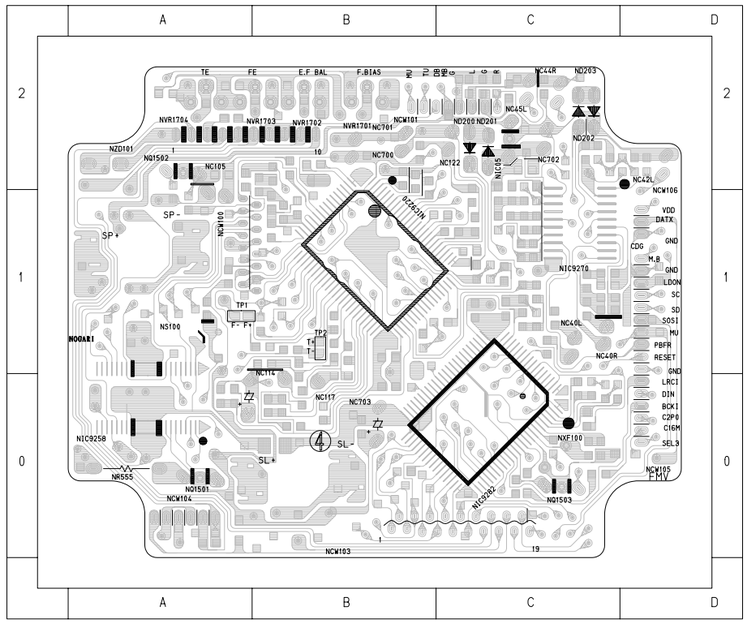
*** IC&WAFER ***

NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

*** CHIP ***

103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

10-3-2 Bottom View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

*** IC&WAFER ***

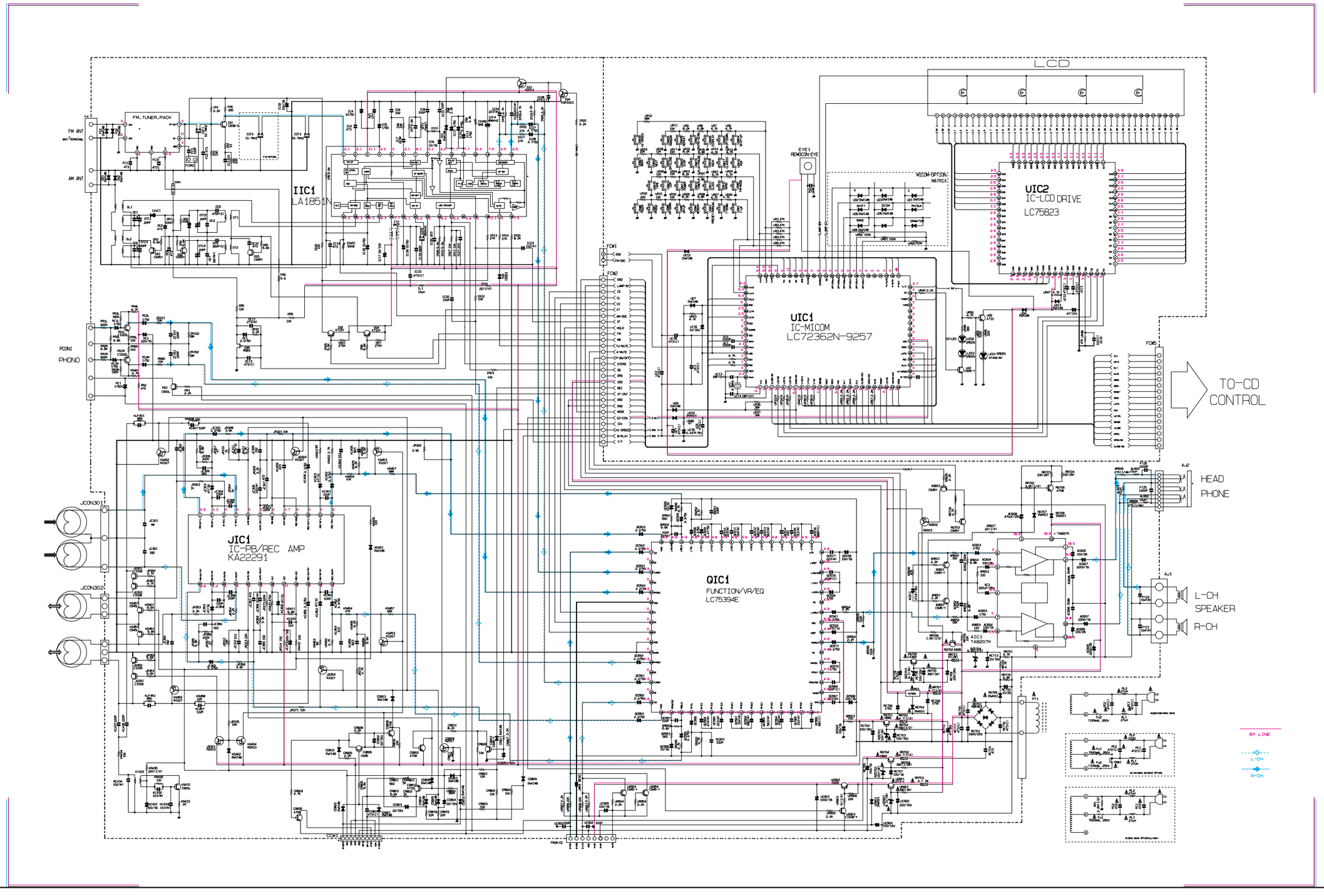
NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

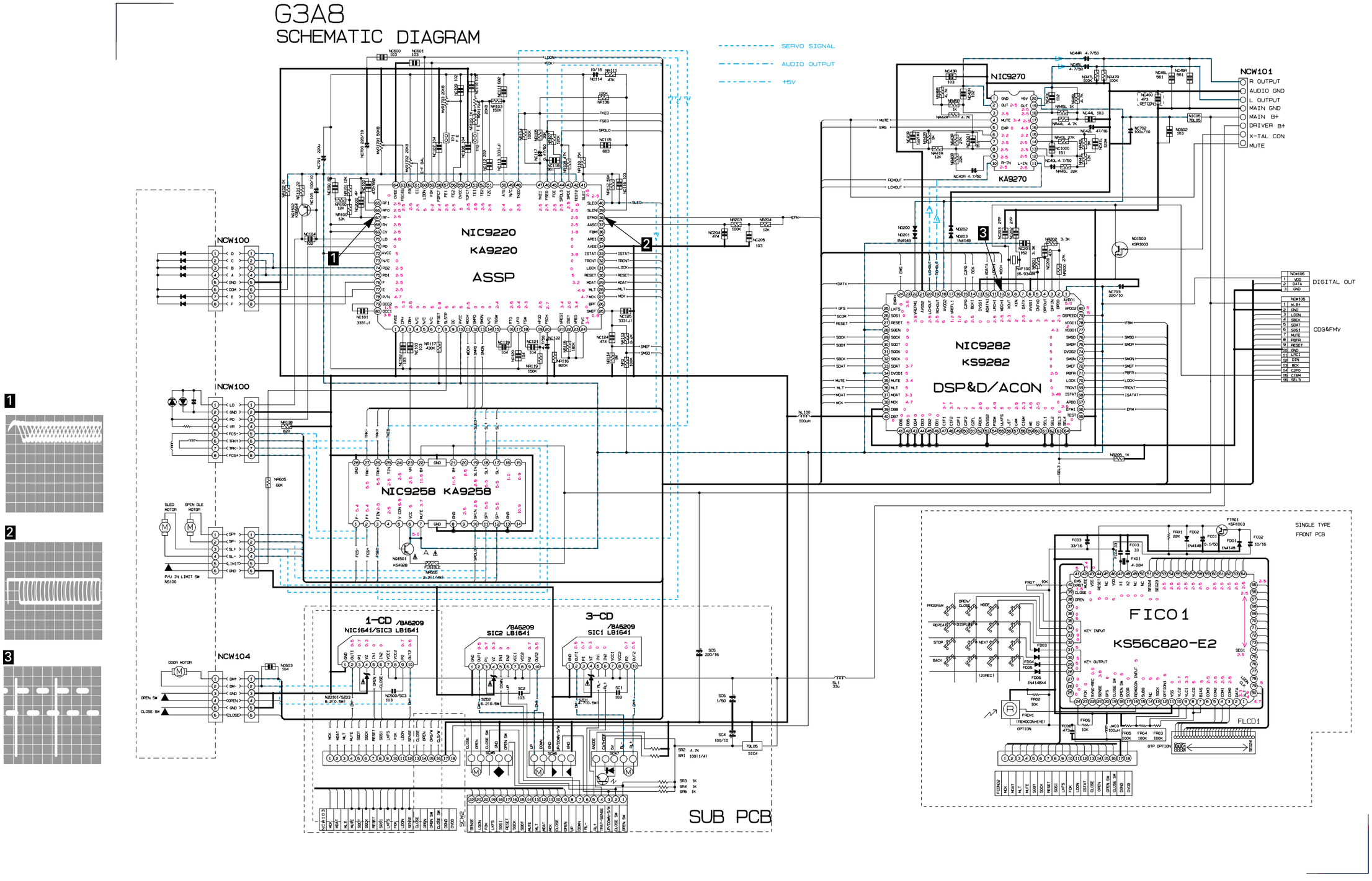
*** CHIP ***

103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

12. Schematic Diagrams

12-1 Main




G3A8
SCHEMATIC DIAGRAM
SERVO SIGNAL
AUDIO OUTPUT
+5V
NIC9220
KA9220
ASSP
NIC9258 KA9258
NIC9270
KA9270
NIC9282
KS9282
DSP&D/ACON
NCW101
R OUTPUT
AUDIO GND
L OUTPUT
MAIN GND
MAIN B+
DRIVER B+
X-TAL CON
MUTE
DIGITAL OUT
CDG&FMV
NCW100
NCW104
1-CD /BA6209
NIC1641/SIC3 LB1641
/BA6209
SIC2 LB1641
3-CD
/BA6209
SIC1 LB1641
SUB PCB
SINGLE TYPE
FRONT PCB
FICO1
KS56C820-E2
FLCD1
DOOR MOTOR
SLED MOTOR
SPIN DLE MOTOR
OPEN SW
CLOSE SW
P/U IN LIMIT SW
1
2
3